Monday - Process Skill of the Week

You are designing an experiment to find out which type of frog can jump farther. Which is a controlled variable (variable that does not change) in this experiment?

O  A. jumping distance
O  B. type of frog
O  C. color of the frog
O  D. texture of the jumping surface

Tuesday - Vocabulary Term of the Week

As it moves through glass, light can do which of the following?

O  A. refract
O  B. reflect
O  C. release
O  D. A and B

Wednesday - Misconception of the Week

What is wrong with this statement? A beaver’s dam is always beneficial to an ecosystem.

O  A. There is nothing wrong with the statement.
O  B. A beaver’s dam can cause harm to other animals’ habitats as it diverts water.
O  C. A beaver’s dam is never beneficial to an ecosystem.
O  D. A beaver’s dam is always detrimental to an ecosystem.

Thursday - Graphic of the Week

What is this a model of?

O  A. day and night
O  B. the water cycle
O  C. rock formation
O  D. weather forecasting
Give one example of how a beaver’s dam is beneficial to the ecosystem and one example of how it is detrimental. Use words and pictures to help explain your answers. Label all pictures.
Monday - Process Skill of the Week
You are measuring the distance (in cm) that a toy car travels down the school hallway. Which would be the best instrument to use?

- A. a centimeter ruler
- B. an inch ruler
- C. a yardstick
- D. a meter stick

Tuesday - Vocabulary Term of the Week
Which organism goes through a metamorphic change in its life cycle?

- A. a frog
- B. a snake
- C. a human child
- D. a bird

Wednesday - Misconception of the Week
What is wrong with this statement?
Hawks, and other birds of prey, use their sharp talons to dig through the dirt to find worms.

- A. There is nothing wrong with this statement.
- B. Birds of prey use their sharp talons to grab its prey and tear its flesh.
- C. Birds of prey do not have sharp talons.
- D. Birds of prey use their sharp beaks to dig for worms.

Thursday - Graphic of the Week
This diagram represents

- A. a food chain
- B. the transfer of energy
- C. a life cycle
- D. photosynthesis
1. Metamorphosis is a drastic ________________ in appearance during a life cycle.

2. Animals have specific structures that ensure their ________________.

3. Centimeters are a unit of measure in the ________________.

4. The process that organisms go through from birth to death is their ________________.

Draw a picture of an organism’s life cycle. Label all pictures.
Monday - Process Skill of the Week

Jaime is conducting an experiment on seed growth. He is using two identical containers each having the same amount and type of seed. One container is watered with tap water and the other with sea water. Which of the following questions is testable in this scientific investigation?

- A. Do beans need light in order to grow?
- B. Can beans grow faster in groups of eight?
- C. Does sea water affect bean growth?
- D. How much water is needed for beans to grow?

Tuesday - Vocabulary Term of the Week

If you leave chocolate near a window on a sunny day it will melt. This is an example of

- A. a chemical change
- B. metamorphosis
- C. a physical change
- D. a simple change

Wednesday - Misconception of the Week

What is wrong with the following statement? All pollutants are man-made.

- A. Pollutants are good for the environment.
- B. Water pollution is caused by dead fish.
- C. Dead organisms are dangerous pollutants.
- D. Volcanic eruptions cause natural pollutants.

Thursday - Graphic of the Week

What is the most likely cause of the temperature change of these hands?

- A. Heat is produced by rubbing the hands together.
- B. The sun is really hot.
- C. The room is too hot.
- D. The person is holding a hot piece of metal.
1. Pollutants can be ________________ or ________________.

2. A(n) __________________ is a possible explanation for an observation of scientific phenomena.

3. Friction can cause a change in ____________________.

4. When an object is changed but can return to its original state it has gone through a ______________ change.

What hypothesis can you make about the affect that salt water will have on plant growth? Use words and/or pictures to explain your answer. Label all pictures.
## Monday - Process Skill of the Week

You see cumulonimbus clouds in the west. What do you predict the weather will be?

- A. fair and sunny
- B. cloudy and warm
- C. stormy
- D. snowy

**Grade References:** 4.SI.B.2

## Tuesday - Vocabulary Term of the Week

Plants need carbon dioxide for what process?

- A. photosynthesis
- B. decomposition
- C. energy transfer
- D. extinction

**Grade References:** 4.LS.B.2

## Wednesday - Misconception of the Week

What is wrong with this statement?

If an object is transparent it is made of glass.

- A. There is nothing wrong with this statement.
- B. Plastic water bottles are transparent.
- C. All glass is transparent but not all transparent objects are glass.
- D. All glass is opaque.

**Grade References:** 4.PS.B.3

## Thursday - Graphic of the Week

Which clouds are more likely to have rain associated with them?

- A. A – cirrus clouds
- B. B – cumulonimbus clouds
- C. neither A or B
- D. both A and B

**Grade References:** 4.ES.D.7
1. Cumulonimbus clouds are a good predictor of ____________ weather.

2. Photosynthesis requires the gas _________________, water and sunlight to produce sugar.

3. ____________ clouds have a wispy appearance.

4. Objects can be sorted based on their characteristics or _________________.

What would you be able to observe in the sky that indicated there is a storm coming? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Kayla collected 5 rocks on her field trip. Four out of the five rocks had fossils of seashells on them. She made a chart and asked her classmates about their rocks. Out of the 58 rocks collected 49 had seashell fossils. A reasonable explanation would be:

A. The class went to the ocean for their field trip.
B. Someone put the rocks there.
C. The area of their field trip was once an ocean.
D. There is no reasonable explanation.

Tuesday - Vocabulary Term of the Week
Harley cannot get his paper airplane to move horizontally. What solution would help his design problem?

A. Throw the airplane out of a window.
B. Use a weight on the front of the airplane.
C. Use a larger sheet of paper.
D. There is no solution for the design problem.

Wednesday - Misconception of the Week
What is wrong with the following statement?
Gases are not matter because most are invisible.

A. Gases are matter because they take up space whether they are visible or not.
B. Only gases that are visible are matter.
C. Gas has no shape so it is not matter.
D. There is nothing wrong with the statement.

Thursday - Graphic of the Week
What land form is pictured below?

A. a valley
B. a delta
C. a glacier
D. a river
1. A ________ is an area that is formed where a river flows into an ocean.

2. Blowing up a balloon shows that _______________ take up space.

3. Analyzing data should lead to _______________ explanations.

4. When there is a design problem, brainstorm possible _______________ to the problem.

How is a delta formed? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week

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The following chart shows the temperature recorded by a 5th grade classroom. Which process skill did they use to complete the chart?

- A. communicating findings
- B. defining operationally
- C. hypothesizing
- D. experimenting

Tuesday - Vocabulary Term of the Week

Which instrument measures the speed of wind?

- A. a barometer
- B. a thermometer
- C. an anemometer
- D. a weather vane

Wednesday - Misconception of the Week

What is wrong with the following statement?
All mammals give birth to live young.

- A. All mammals lay eggs.
- B. Most mammals give birth to live young.
- C. There is nothing wrong with the statement.
- D. All birds give birth to live young.

Thursday - Graphic of the Week

Which direction did the snow over Ohio most likely come from?

- A. north
- B. south
- C. east
- D. west

Figure 5: Surface map for 0638 EST Sunday 3/16/03 ( credit for Weather Channel)
1. An anemometer measures the _____________ of wind.

2. Most of Ohio’s weather comes from the _____________.

3. The platypus and echidnas (spiny anteaters) are the only ________________ that lays eggs.

4. Making charts is one way to _________________ your findings.

You are collecting data on daily rainfall. How should you communicate your findings? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Gerald wanted to do an experiment using Kool-Aid to water his plants. His guiding question is whether or not plants will grow using Kool-Aid. **Gerald says that the plants will grow.**

O A. The bolded statement is a fact.
O B. The bolded statement is an opinion.
O C. The bolded statement is both a fact and opinion.
O D. The bolded statement is neither a fact nor an opinion.

Tuesday - Vocabulary Term of the Week
Maya found a rock that is soft with flat layers and a fossil in it. What type of rock does she have?

O A. cement
O B. metamorphic
O C. igneous
O D. sedimentary

Wednesday - Misconception of the Week
What is wrong with this statement? Soil with a lot of clay holds more water and nutrients.

O A. There is nothing wrong with this statement.
O B. Soil with a lot of silt holds more water and nutrients.
O C. Soil with a lot of sand holds more water and nutrients.
O D. All soil holds water equally as well.

Thursday - Graphic of the Week
Which part of this soil column is the oldest?

O A. humus
O B. topsoil
O C. subsoil
O D. parent material
Daily Science Week in Review #7 (GP1)

Name _________________________________   Date ___________________

1. ________________ is the top layer of soil with decaying organic material.
2. The _________________________ of soil is determined by its sand, silt and/or clay content.
3. _________________ rocks are formed by volcanic action.
4. A(n) _______________________ is a statement of a person’s beliefs.

Write one fact about soil and one opinion about rocks. Use words and pictures to explain your answer. Label all pictures.
## Monday - Process Skill of the Week
How can you find out the affect that computers have on learning?

O A. Observe a class where computers are used.
O B. Design an investigation around a question about computer use and learning.
O C. Ask your teacher.
O D. Write to the editor of your local paper.

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## Tuesday - Vocabulary Term of the Week
How does water vapor form in the sky?

O A. It forms by condensation.
O B. It forms by precipitation.
O C. It forms by evaporation.
O D. There is no water vapor in the sky.

---

## Wednesday - Misconception of the Week
What is wrong with the following statement? Animals help plants by carrying pollen to other species.

O A. There is nothing wrong with this statement.
O B. Animals help plants by carrying pollen to other like plants.
O C. Animals do not carry pollen.
O D. Only birds can carry pollen.

---

## Thursday - Graphic of the Week
Which part of this plant helps carry nutrients to the other parts of the plant?

O A. stem
O B. petals
O C. flower
O D. fruit
1. The function of the leaves is to absorb ___________ for producing food.

2. Water returns to the Earth in the form of _________________.

3. Carrying pollen is one way that animals ________________ with plants.

4. Designing a(n) _________________ is one way to find out information and gather data.

Draw and label a plant with at least 4 structures.
Monday - Process Skill of the Week
Microscopes are needed to view all of the following except

- A. eye color
- B. skin cells
- C. flea structures
- D. atoms

Tuesday - Vocabulary Term of the Week
Which organism cannot survive in an underwater ecosystem?

- A. a whale
- B. an earthworm
- C. an anemone
- D. a dolphin

Wednesday - Misconception of the Week
What is wrong with the following statement? Mixing vinegar and baking soda is a physical change.

- A. There is nothing wrong with this statement.
- B. This is a chemical change.
- C. There will be no change.
- D. There will be a temporary change.

Thursday - Graphic of the Week
What force must act on these steel balls to make them come together without touching them?

- A. inertia
- B. a push
- C. a pull
- D. magnetism
1. A __________ change produces a new material with different properties than the original materials.

2. __________________________ is a non-contact force that affects the motion of an object.

3. An organisms needs must be met in the ______________ that it lives in.

4. A(n) __________________________ is a tool that enables us to see small objects in more detail than the naked eye can.

Draw a picture of a contact force that affects the motion of an object. Label all pictures.
### Monday - Process Skill of the Week

You are designing an experiment to find out which type of frog can jump farther. Which is a controlled variable (variable that does not change) in this experiment?

- O A. jumping distance
- O B. type of frog
- O C. color of the frog
- O D. texture of the jumping surface

**4.SI.C.3**

### Tuesday - Vocabulary Term of the Week

As it moves through glass, light can do which of the following?

- O A. refract
- O B. reflect
- O C. release
- O D. A and B

**5.PS.F.5**

### Wednesday - Misconception of the Week

What is wrong with this statement? A beaver’s dam is always beneficial to an ecosystem.

- O A. There is nothing wrong with the statement.
- O B. A beaver’s dam can cause harm to other animals’ habitats as it diverts water.
- O C. A beaver’s dam is never beneficial to an ecosystem.
- O D. A beaver’s dam is always detrimental to an ecosystem.

**3.LS.C.6**

### Thursday - Graphic of the Week

What is this a model of?

- O A. day and night
- O B. the water cycle
- O C. rock formation
- O D. weather forecasting

**4.ES.D.3**
1. Light ______refracts_______ and ______reflects_______ as it moves through glass.

2. Changes in an ecosystem can be beneficial, neutral or _____detrimental______.

3. Evaporation, condensation and ________precipitation_________ are a part of the water cycle.

4. Variables that do not change in an experiment are _____controlled_______ variables.

Give one example of how a beaver's dam is beneficial to the ecosystem and one example of how it is detrimental. Use words and pictures to help explain your answers. Label all pictures.
Monday - Process Skill of the Week
You are measuring the distance (in cm) that a toy car travels down the school hallway. Which would be the best instrument to use?

O A. a centimeter ruler
O B. an inch ruler
O C. a yardstick
O D. a meter stick

Tuesday - Vocabulary Term of the Week
Which organism goes through a metamorphic change in its life cycle?

O A. a frog
O B. a snake
O C. a human child
O D. a bird

Wednesday - Misconception of the Week
What is wrong with this statement? Hawks, and other birds of prey, use their sharp talons to dig through the dirt to find worms.

O A. There is nothing wrong with this statement.
O B. Birds of prey use their sharp talons to grab its prey and tear its flesh.
O C. Birds of prey do not have sharp talons.
O D. Birds of prey use their sharp beaks to dig for worms.

Thursday - Graphic of the Week
This diagram represents

O A. a food chain
O B. the transfer of energy
O C. a life cycle
O D. photosynthesis
1. Metamorphosis is a drastic ____change____ in appearance during a life cycle.

2. Animals have specific structures that ensure their ______survival_____.

3. Centimeters are a unit of measure in the ______metric system_____.

4. The process that organisms go through from birth to death is their ___life cycle_____.

Draw a picture of an organism’s life cycle. Label all pictures.
Monday - Process Skill of the Week
Jaime is conducting an experiment on seed growth. He is using two identical containers each having the same amount and type of seed. One container is watered with tap water and the other with sea water. Which of the following questions is testable in this scientific investigation?

- A. Do beans need light in order to grow?
- B. Can beans grow faster in groups of eight?
- C. Does sea water affect bean growth?
- D. How much water is needed for beans to grow?

Tuesday - Vocabulary Term of the Week
If you leave chocolate near a window on a sunny day it will melt. This is an example of

- A. a chemical change
- B. metamorphosis
- C. a physical change
- D. a simple change

Wednesday - Misconception of the Week
What is wrong with the following statement?
All pollutants are man-made.

- A. Pollutants are good for the environment.
- B. Water pollution is caused by dead fish.
- C. Dead organisms are dangerous pollutants.
- D. Volcanic eruptions cause natural pollutants.

Thursday - Graphic of the Week
What is the most likely cause of the temperature change of these hands?

- A. Heat is produced by rubbing the hands together.
- B. The sun is really hot.
- C. The room is too hot.
- D. The person is holding a hot piece of metal.
Daily Science Week in Review #3 (GP1)

Name ___________  KEY __________________ Date ___________________

1. Pollutants can be _____natural______ or man-made_______.

2. A(n) ____hypothesis______ is a possible explanation for an observation of scientific phenomena.

3. Friction can cause a change in ______temperature______.

4. When an object is changed but can return to its original state it has gone through a ____physical_____ change.

What hypothesis can you make about the affect that salt water will have on plant growth? Use words and/or pictures to explain your answer. Label all pictures.
**Monday - Process Skill of the Week**

You see cumulonimbus clouds in the west. What do you predict the weather will be?

- A. fair and sunny
- B. cloudy and warm
- C. stormy
- D. snowy

**Tuesday - Vocabulary Term of the Week**

Plants need carbon dioxide for what process?

- A. photosynthesis
- B. decomposition
- C. energy transfer
- D. extinction

**Wednesday - Misconception of the Week**

What is wrong with this statement? If an object is transparent it is made of glass.

- A. There is nothing wrong with this statement.
- B. Plastic water bottles are transparent.
- C. All glass is transparent but not all transparent objects are glass.
- D. All glass is opaque.

**Thursday - Graphic of the Week**

Which clouds are more likely to have rain associated with them?

- A. A – cirrus clouds
- B. B - cumulonimbus clouds
- C. neither A or B
- D. both A and B
1. Cumulonimbus clouds are a good predictor of **stormy** weather.

2. Photosynthesis requires the gas **carbon dioxide**, water and sunlight to produce sugar.

3. **Cirrus** clouds have a wispy appearance.

4. Objects can be sorted based on their characteristics or **properties**.

What would you be able to observe in the sky that indicated there is a storm coming? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Kayla collected 5 rocks on her field trip. Four out of the five rocks had fossils of seashells on them. She made a chart and asked her classmates about their rocks. Out of the 58 rocks collected 49 had seashell fossils. A reasonable explanation would be

- O A. The class went to the ocean for their field trip.
- O B. Someone put the rocks there.
- O C. The area of their field trip was once an ocean.
- O D. There is no reasonable explanation.

Tuesday - Vocabulary Term of the Week
Harley cannot get his paper airplane to move horizontally. What solution would help his design problem?

- O A. Throw the airplane out of a window.
- O B. Use a weight on the front of the airplane.
- O C. Use a larger sheet of paper.
- O D. There is no solution for the design problem.

Wednesday - Misconception of the Week
What is wrong with the following statement?
Gases are not matter because most are invisible.

- O A. Gases are matter because they take up space whether they are visible or not.
- O B. Only gases that are visible are matter.
- O C. Gas has no shape so it is not matter.
- O D. There is nothing wrong with the statement.

Thursday - Graphic of the Week
What land form is pictured below?

- O A. a valley
- O B. a delta
- O C. a glacier
- O D. a river
1. A ___delta____ is an area that is formed where a river flows into an ocean.

2. Blowing up a balloon shows that ______gas_____ take up space.

3. Analyzing data should lead to ___reasonable_______ explanations.

4. When there is a design problem, brainstorm possible ____solutions_____ to the problem.

How is a delta formed? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week

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The following chart shows the temperature recorded by a 5th grade classroom. Which process skill did they use to complete the chart?

O A. communicating findings
O B. defining operationally
O C. hypothesizing
O D. experimenting

Tuesday - Vocabulary Term of the Week

Which instrument measures the speed of wind?

O A. a barometer
O B. a thermometer
O C. an anemometer
O D. a weather vane

Wednesday - Misconception of the Week

What is wrong with the following statement?
All mammals give birth to live young.

O A. All mammals lay eggs.
O B. Most mammals give birth to live young.
O C. There is nothing wrong with the statement.
O D. All birds give birth to live young.

Thursday - Graphic of the Week

Which direction did the snow over Ohio most likely come from?

O A. north
O B. south
O C. east
O D. west
1. An anemometer measures the ________ speed____ of wind.

2. Most of Ohio’s weather comes from the ____ west____.

3. The platypus and echidnas (spiny anteaters) are the only _____mammals_____ that lays eggs.

4. Making charts is one way to ______communicate_____ your findings.

You are collecting data on daily rainfall. How should you communicate your findings? Use words and/or pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Gerald wanted to do an experiment using Kool-Aid to water his plants. His guiding question is whether or not plants will grow using Kool-Aid.

**Gerald says that the plants will grow.**

- O A. The bolded statement is a fact.
- O B. **The bolded statement is an opinion.**
- O C. The bolded statement is both a fact and opinion.
- O D. The bolded statement is neither a fact nor an opinion.

Tuesday - Vocabulary Term of the Week
Maya found a rock that is soft with flat layers and a fossil in it. What type of rock does she have?

- O A. cement
- O B. metamorphic
- O C. igneous
- O D. sedimentary

Wednesday - Misconception of the Week
What is wrong with this statement?
Soil with a lot of clay holds more water and nutrients.

- O A. **There is nothing wrong with this statement.**
- O B. Soil with a lot of silt holds more water and nutrients.
- O C. Soil with a lot of sand holds more water and nutrients.
- O D. All soil holds water equally as well.

Thursday - Graphic of the Week
Which part of this soil column is the oldest?

- O A. humus
- O B. topsoil
- O C. subsoil
- O D. parent material
1. __Humus____ is the top layer of soil with decaying organic material.

2. The ____texture____ of soil is determined by its sand, silt and/or clay content.

3. __Igneous____ rocks are formed by volcanic action.

4. A(n) ____opinion____ is a statement of a person’s beliefs.

Write one fact about soil and one opinion about rocks. Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
How can you find out the affect that computers have on learning?

O A. Observe a class where computers are used.
O B. Design an investigation around a question about computer use and learning.
O C. Ask your teacher.
O D. Write to the editor of your local paper.

Tuesday - Vocabulary Term of the Week
How does water vapor form in the sky?

O A. It forms by condensation.
O B. It forms by precipitation.
O C. It forms by evaporation.
O D. There is no water vapor in the sky.

Wednesday - Misconception of the Week
What is wrong with the following statement? Animals help plants by carrying pollen to other species.

O A. There is nothing wrong with this statement.
O B. Animals help plants by carrying pollen to other like plants.
O C. Animals do not carry pollen
O D. Only birds can carry pollen.

Thursday - Graphic of the Week
Which part of this plant helps carry nutrients to the other parts of the plant?

O A. stem
O B. petals
O C. flower
O D. fruit
1. The function of the leaves is to absorb ___sunlight___ for producing food.

4. Water returns to the Earth in the form of ___precipitation______.

5. Carrying pollen is one way that animals ____interact____ with plants.

4. Designing a(n) ____investigation_______ is one way to find out information and gather data.

Draw and label a plant with at least 4 structures.
Monday - Process Skill of the Week
Microscopes are needed to view all of the following except

O A. eye color
O B. skin cells
O C. flea structures
O D. atoms

Tuesday - Vocabulary Term of the Week
Which organism cannot survive in an underwater ecosystem?

O A. a whale
O B. an earthworm
O C. an anemone
O D. a dolphin

Wednesday - Misconception of the Week
What is wrong with the following statement? Mixing vinegar and baking soda is a physical change.

O A. There is nothing wrong with this statement.
O B. This is a chemical change.
O C. There will be no change.
O D. There will be a temporary change.

Thursday - Graphic of the Week
What force must act on these steel balls to make them come together without touching them?

O A. inertia
O B. a push
O C. a pull
O D. magnetism
5. A **chemical** change produces a new material with different properties than the original materials.

6. **Magnetism or gravity** is a non-contact force that affects the motion of an object.

7. An organism's needs must be met in the **ecosystem** that it lives in.

8. A(n) **microscope** is a tool that enables us to see small objects in more detail than the naked eye can.

---

Draw a picture of a contact force that affects the motion of an object. Label all pictures.
Monday - Process Skill of the Week

Which pieces of laboratory equipment shown above are used for safety?
- A. 1 and 2
- B. 3 and 5
- C. 3 and 4
- D. 4 and 6

Tuesday - Vocabulary Term of the Week

In an ecosystem, the sun, air, water and soil are
- A. antibiotics
- B. biotics
- C. abiotics
- D. non-renewable

Wednesday - Misconception of the Week

What is wrong with the following statement? The movement of the sun causes day and night.
- A. The sun doesn’t move around the Earth
- B. The rotation of the Earth causes day and night.
- C. The orbit of the Earth causes day and night.
- D. A and B

Thursday - Graphic of the Week

The carnivore in this food chain is the
- A. sun
- B. grass
- C. deer
- D. wolf
1. In an ecosystem, sun, air, water and soil are __________________________.

2. The ______________________ of the Earth causes day and night.

3. _______________________ are animals that eat other animals.

4. ________________ provide protection for your eyes during a science investigation.

Draw a simple food chain. Use arrows to indicate the transfer of energy. Label all pictures.
Monday - Process Skill of the Week

Maria is setting up an experiment with two plants to see if fertilizer increases the growth rate of plants. Which variables should stay the same?

- A. the type of fertilizer
- B. the type of plants
- C. the amount of water
- D. all of the above

Tuesday - Vocabulary Term of the Week

Animals use mimicry to

- A. reproduce
- B. to protect themselves from predators
- C. for entertainment
- D. assist metamorphosis

Wednesday - Misconception of the Week

What is wrong with this statement? Almost all kinds of animals’ food can be traced back to animals.

- A. There is nothing wrong with the statement.
- B. Not all animals are carnivorous.
- C. Animals so not eat other animals.
- D. You cannot trace an animal’s food source.

Thursday - Graphic of the Week

This graphic indicates that robins do not live in Canada and some parts of the northern United States during the winter. Why do robins migrate south?

- A. There is no shelter for them up north.
- B. They are looking for water.
- C. The availability of food is scarce.
- D. They do not adapt to the cold.
1. Animals ______________________ when food sources become scarce.

2. Most animals’ food source can be traced back to ________________.

3. In an experiment, most ________________________ remain the same to provide a fair experiment.

4. Animals may use camouflage or _______________________ to protect themselves from predators.

In the northern part of North America, the weather becomes cold and animals must adapt to the temperature change. Name two adaptations or behaviors that animals use during colder months.
Monday - Process Skill of the Week
Jaleel wants to know if he can change the drying time of puddles on his driveway. Which of the following tools will help him in this investigation?

O A. a thermometer  
O B. a microscope  
O C. a tape measure  
O D. a stopwatch

Tuesday - Vocabulary Term of the Week
As the hawk population increases in an ecosystem the population of deer mouse will most likely decrease due to

O A. the deer mouse lacking in food source.  
O B. the deer mouse being exposed to disease.  
O C. the deer mouse being prey of the hawks.  
O D. the deer mouse moving to a safer location.

Wednesday - Misconception of the Week
A scientist is studying how weather and erosion can change the shape of a mountain. The scientist will need to collect this information over what kind of time period to gather the MOST accurate data?

O A. days  
O B. years  
O C. weeks  
O D. months

Thursday - Graphic of the Week
Groundhogs have underground burrows like the one in this picture. If this burrow was in an ecosystem where there were snakes, what type of change would it be for the snake?

O A. detrimental  
O B. neutral  
O C. beneficial  
O D. partisan
1. Groundhog burrows can be ________________ to snakes because snakes cannot dig and need shelter.

2. ________________ is a slow change of the Earth’s surface.

3. Selecting the right ________________ for an investigation is necessary for accuracy.

4. Populations in a(n) ________________ are dependent upon each other for energy.

Describe two slow changes of Earth’s surface. Use words and pictures to explain your answer. Label all pictures.
**Monday - Process Skill of the Week**  
Lab partners measured the same plant during science. The first partner measured the plant at 10cm. The second partner came up with a measurement of 4. What is the most likely reason for the discrepancy?  
- A. The second partner measured in inches.  
- B. A partner measured the wrong plant.  
- C. The plant was broken by the first partner.  
- D. They measured the plant on different days.

**Tuesday - Vocabulary Term of the Week**  
What natural process causes the weathering of rock?  
- A. rain  
- B. hurricanes  
- C. freezing and thawing  
- D. landslides

**Wednesday - Misconception of the Week**  
What is wrong with this statement? The major role of a producer in an ecosystem is to produce sugar (food) through photosynthesis.  
- A. There is nothing wrong with this statement.  
- B. Producers breakdown dead plants and animals.  
- C. They transfer energy to the soil.  
- D. They are an abiotic and do not produce sugar.

**Thursday - Graphic of the Week**  
Is the largest visible star in the picture (circled) the closest star?  
- A. No, but it is the largest star.  
- B. It is impossible to tell from the picture.  
- C. Yes, it is the closest because it is the largest.  
- D. No, the sun is the largest star.
1. Freezing and thawing are types of _______________________________.

2. ______________________ make their own food in an ecosystem.

3. The _______________ of a star cannot be determined by the naked eye.

4. Scientists must clearly communicate their methods and findings to ensure _______________ results.

Freezing and thawing is a slow process to change the Earth’s surface. Name one fast process that changes the Earth’s surface.
Monday - Process Skill of the Week
In class, Jaleesha is having a hard time pulling her seat closer to the table. Which solution is the most likely to work?

O A. She can put sandpaper on the bottom of the chair legs to increase friction.
O B. She can put tennis balls on the bottom of the chair legs to reduce friction.
O C. She can put sandpaper on the bottom of the legs to increase friction.
O D. She can put tennis balls on the bottom of the legs to increase friction.

Tuesday - Vocabulary Term of the Week
Deciduous trees are trees that
O stay green all year long.
O have pinecones.
O lose their leaves in the fall.
O grow only in the tundra.

Wednesday - Misconception of the Week
What is wrong with this statement? Bioluminescence is light produced by a chemical reaction within an organism that only protects it from predators.

O A. There is nothing wrong with this statement.
O B. It also helps with communication and finding a mate.
O C. It only helps in communication.
O D. It only helps in finding a mate.

Thursday - Graphic of the Week
How is this squirrel interacting with plants?

O A. It is helping disperse seeds from trees.
O B. It is giving shelter to trees.
O C. It is providing food for trees.
O D. The squirrel is not interacting with plants.
1. Trees that lose their leaves during the year are called ________________________.

2. Some animals interact with plants by _______________________ their seeds.

3. The design process helps to come up with solutions to ________________________.

4. Some organisms have _________________________ like bioluminescence to assist in its survival.

What summer beetle uses bioluminescence? What do you think the purpose of this adaptation is? Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Charlie was observing his dog’s behavior during feeding time to see what kind of food the dog liked best. What should Charlie do with his observations in order to accurately analyze his finding?
O  A. Tell a friend what he’s doing.
O  B. Keep a journal with all of his observations.
O  C. Write down random ideas about his observations.
O  D. Just keep observing.

Tuesday - Vocabulary Term of the Week
The Earth’s orbit is not quite circular. We call this a(an)
O  A. egg orbit.
O  B. cylindrical orbit.
O  C. round orbit.
O  D. elliptical orbit.

Wednesday - Misconception of the Week
What is wrong with this statement?
The sun is the largest star in the universe.
O  A. There is nothing wrong with this statement.
O  B. The sun is a medium-sized star with larger stars in the universe.
O  C. The sun is the largest star in the galaxy.
O  D. The sun is not a star.

Thursday - Graphic of the Week
Which layer is the youngest?
O  A. 1
O  B. 7
O  C. 4
O  D. 5
1. The Earth’s ________________ around the sun is elliptical.

2. Rocks can be found in __________________ and provide evidence of their age.

3. The ______________ is the only star in our solar system.

4. Journals are an excellent place to record _____________.

Construct a chart that shows the temperature over 5 days. Be sure to use labels on your chart.
Monday - Process Skill of the Week
A 5th grade class is doing an investigation of signs of wildlife in the bushes on the playground. What precautions should the class take to have a safe investigation?

O A. They should wear safety goggles and gloves.
O B. They should wear fireproof clothing.
O C. They should let adults do the investigation.
O D. There are no potential hazards.

Tuesday - Vocabulary Term of the Week
Meteorologists use which tool to measure air pressure?

O A. a barometer
O B. a thermometer
O C. a rain gauge
O D. an anemometer

Wednesday - Misconception of the Week
What is wrong with this statement? Bats are birds because they have wings.

O A. There is nothing wrong with this statement.
O B. Bats are reptiles.
O C. Bats are the only mammals that can fly.
O D. Bats are birds because they fly.

Thursday - Graphic of the Week
Ways to reducing the use of non-renewable resources
- carpool to practice
- wear more clothes inside during the winter
- ride your bicycle to practice

Which word will complete this table?

O A. compost grass clippings
O B. use a solar-powered calculator
O C. walk to school instead of getting a ride
O D. water the lawn in the morning
1. A barometer measures ________________________ in inches of mercury (in/Hg).

2. Fossil fuels are a __________________________ resource.

3. Bats are ________________________ that can fly.

4. It is important to protect yourself with ____________________ equipment during science investigations.

You are conducting a science investigation that requires fire. Name two safety precautions that you can use during the investigation?
Monday - Process Skill of the Week

Helena and Ari were recording the daily temperature and then finding a weekly average. Helena found that the weekly average was 76° and Ari found that it was 80°. What is MOST likely the reason for the difference?

O A. They took the temperature at different times of the day.
O B. One measured in C° and the other in F°.
O C. They made up their data.
O D. 4° is not a big discrepancy.

Tuesday - Vocabulary Term of the Week

Joel took these temperature measurements last week. He can describe his findings as

O A. a warming trend
O B. a cold front moving in
O C. the start of spring
O D. a cooling trend

Wednesday - Misconception of the Week

What is wrong with this statement?
Plants are not strong enough to breakdown rock.

O A. There is nothing wrong with this statement.
O B. Plants can breakdown rocks into smaller rocks over time.
O C. Only sedimentary rocks can be broken down plants.
O D. Only metamorphic rock can be broken down by plants.

Thursday - Graphic of the Week

How can we maintain our freshwater supply?

O A. We can recycle old newspapers.
O B. We can reuse our aluminum foil.
O C. We can reduce the use of water in our homes.
O D. We cannot maintain our freshwater supply.
1. When analyzing similar data taken by different people, it is important to justify any _________________.

2. Larger rocks can be broken down into ________________ rocks by plants over time.

3. Reducing the amount of water we use by ________________ can help maintain the resource.

4. After collecting and analyzing data, you should be able to come up with a reasonable ________________ about the data.

Describe at least two ways that you can reduce the amount of water you use. Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
When threatened, an octopus can change color to blend in with its surroundings. Which question could scientists use to study this behavior?
O A. How big does an octopus get?
O B. What colors can the octopus change to when threatened?
O C. What happens when a natural predator swims near the octopus?
O D. How does the octopus produce a white color on the front of its body?

Tuesday - Vocabulary Term of the Week
When examining soil you may find all of the following EXCEPT
O A. small rocks
O B. decomposed plant parts
O C. decomposed animal parts
O D. large rocks

Wednesday - Misconception of the Week
What is wrong with this statement? Cumulonimbus clouds are tall and dense and can bring thunderstorms.
O A. There is nothing wrong with this statement.
O B. Cumulus clouds bring thunderstorms.
O C. Cumulonimbus clouds are wispy, high level clouds.
O D. Stratus clouds bring thunderstorms.

Thursday - Graphic of the Week
Polar bears are well suited for the arctic ecosystem due to their physical adaptations. Their black skin provides
O A. camouflage in warmer weather.
O B. a way to cool down in warmer weather.
O C. a way to warm themselves in cold weather.
O D. camouflage in colder weather.
1. Small rocks and decomposed plant and animal parts make up _________________.

2. Thunderstorms are characteristic of ________________ clouds.

3. Black skin to absorb heat and wide paws to assist in swimming and navigating the snow and ice are two ________________ that make the arctic region a good ecosystem for polar bears.

4. When studying phenomena, scientists develop ________________ to guide them.

If you were studying the sleeping habits of cats, what would be a good guiding question?
Monday - Process Skill of the Week

Which pieces of laboratory equipment shown above are used for safety?

- A. 1 and 2
- B. 3 and 5
- C. 3 and 4
- D. 4 and 6

Tuesday - Vocabulary Term of the Week

In an ecosystem, the sun, air, water and soil are

- A. antibiotics
- B. biotics
- C. abiotics
- D. non-renewable

Wednesday - Misconception of the Week

What is wrong with the following statement? The movement of the sun causes day and night.

- A. The sun doesn’t move around the Earth
- B. The rotation of the Earth causes day and night
- C. The orbit of the Earth causes day and night
- D. A and B

Thursday - Graphic of the Week

The carnivore in this food chain is the

- A. sun
- B. grass
- C. deer
- D. wolf
1. In an ecosystem, sun, air, water and soil are **abiotics**.

2. The **rotation** of the Earth causes day and night.

3. **Carnivores** are animals that eat other animals.

4. **Goggles** provide protection for your eyes during a science investigation.

---

Draw a simple food chain. Use arrows to indicate the transfer of energy. Label all pictures.
Monday - Process Skill of the Week

Maria is setting up an experiment with two plants to see if fertilizer increases the growth rate of plants. Which variables should stay the same?

- A. the type of fertilizer
- B. the type of plants
- C. the amount of water
- D. all of the above

Tuesday - Vocabulary Term of the Week

Animals use mimicry to

- A. reproduce
- B. to protect themselves from predators
- C. for entertainment
- D. assist metamorphosis

Wednesday - Misconception of the Week

What is wrong with this statement?
Almost all kinds of animals’ food can be traced back to animals.

- A. There is nothing wrong with the statement.
- B. Not all animals are carnivorous.
- C. Animals so not eat other animals.
- D. You cannot trace an animal’s food source.

Thursday - Graphic of the Week

This graphic indicates that robins do not live in Canada and some parts of the northern United States during the winter. Why do robins migrate south?

- A. There is no shelter for them up north.
- B. They are looking for water.
- C. The availability of food is scarce.
- D. They do not adapt to the cold.
1. Animals **migrate** when food sources become scarce.

2. Most animals’ food source can be traced back to **plants**.

3. In an experiment, most **variables** remain the same to provide a fair experiment.

4. Animals may use camouflage or **mimicry** to protect themselves from predators.

In the northern part of North America, the weather becomes cold and animals must adapt to the temperature change. Name two adaptations or behaviors that animals use during colder months.
### Monday - Process Skill of the Week

Jaleel wants to know if he can change the drying time of puddles on his driveway. Which of the following tools will help him in this investigation?

- **A. a thermometer**
- **B. a microscope**
- **C. a tape measure**
- **D. a stopwatch**

**Answer:** D. a stopwatch

**Standard:** 5.SI.A.1

### Tuesday - Vocabulary Term of the Week

As the hawk population increases in an ecosystem, the population of deer mouse will most likely decrease due to

- **A. the deer mouse lacking in food source.**
- **B. the deer mouse being exposed to disease.**
- **C. the deer mouse being prey of the hawks.**
- **D. the deer mouse moving to a safer location.**

**Answer:** C. the deer mouse being prey of the hawks.

**Standard:** 5.LS.C.5

### Wednesday - Misconception of the Week

A scientist is studying how weather and erosion can change the shape of a mountain. The scientist will need to collect this information over what kind of time period to gather the MOST accurate data?

- **A. days**
- **B. years**
- **C. weeks**
- **D. months**

**Answer:** B. years

**Standard:** 4.ES.B.10

### Thursday - Graphic of the Week

Groundhogs have underground burrows like the one in this picture. If this burrow was in an ecosystem where there were snakes, what type of change would it be for the snake?

- **A. detrimental**
- **B. neutral**
- **C. beneficial**
- **D. partisan**

**Answer:** B. neutral

**Standard:** 5.LS.C.6
1. Groundhog burrows can be beneficial to snakes because snakes cannot dig and need shelter.

2. Weathering is a slow change of the Earth’s surface.

3. Selecting the right tool for an investigation is necessary for accuracy.

4. Populations in a(n) ecosystem are dependent upon each other for energy.

Describe two slow changes of Earth’s surface. Use words and pictures to explain your answer. Label all pictures.
<table>
<thead>
<tr>
<th>Day</th>
<th>Activity</th>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
</table>
| Monday           | Process Skill of the Week                     | Lab partners measured the same plant during science. The first partner measured the plant at 10 cm. The second partner came up with a measurement of 4. What is the most likely reason for the discrepancy? | O A. The second partner measured in inches.  
O B. A partner measured the wrong plant.  
O C. The plant was broken by the first partner.  
O D. They measured the plant on different days. |
| Tuesday          | Vocabulary Term of the Week                   | What natural process causes the weathering of rock?                     | O A. rain  
O B. hurricanes  
O C. freezing and thawing  
O D. landslides |
| Wednesday        | Misconception of the Week                     | What is wrong with this statement? The major role of a producer in an ecosystem is to produce sugar (food) through photosynthesis. | O A. There is nothing wrong with this statement.  
O B. Producers breakdown dead plants and animals.  
O C. They transfer energy to the soil.  
O D. They are an abiotic and do not produce sugar. |
| Thursday         | Graphic of the Week                           | Is the largest visible star in the picture (circled) the closest star?   | O A. No, but it is the largest star.  
O B. It is impossible to tell from the picture.  
O C. Yes, it is the closest because it is the largest.  
O D. No, the sun is the largest star. |
1. Freezing and thawing are types of ______weathering______.

2. ___Producers_____ make their own food in an ecosystem.

3. The ____size____ of a star cannot be determined by the naked eye.

4. Scientists must clearly communicate their methods and findings to ensure ____accurate____ results.

Freezing and thawing is a slow process to change the Earth’s surface. Name one fast process that changes the Earth’s surface.
Monday - Process Skill of the Week
In class, Jaleesha is having a hard time pulling her seat closer to the table. Which solution is the most likely to work?

- O  A. She can put sandpaper on the bottom of the chair legs to reduce friction.
- O  B. She can put tennis balls on the bottom of the chair legs to reduce friction.
- O  C. She can put sandpaper on the bottom of the legs to increase friction.
- O  D. She can put tennis balls on the bottom of the legs to increase friction.

Tuesday - Vocabulary Term of the Week
Deciduous trees are trees that

- O stay green all year long.
- O have pinecones.
- O lose their leaves in the fall.
- O grow only in the tundra.

Wednesday - Misconception of the Week
What is wrong with this statement? Bioluminescence is light produced by a chemical reaction within an organism that only protects it from predators.

- O A. There is nothing wrong with this statement.
- O B. It also helps with communication and finding a mate.
- O C. It only helps in communication.
- O D. It only helps in finding a mate.

Thursday - Graphic of the Week
How is this squirrel interacting with plants?

- O A. It is helping disperse seeds from trees.
- O B. It is giving shelter to trees.
- O C. It is providing food for trees.
- O D. The squirrel is not interacting with plants.
1. Trees that lose their leaves during the year are called **deciduous**.

2. Some animals interact with plants by **dispersing** their seeds.

3. The design process helps to come up with solutions to **problems**.

4. Some organisms have **adaptations** like bioluminescence to assist in its survival.

What summer beetle uses bioluminescence? What do you think the purpose of this adaptation is? Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Charlie was observing his dog’s behavior during feeding time to see what kind of food the dog liked best. What should Charlie do with his observations in order to accurately analyze his finding?
O A. Tell a friend what he’s doing.
O B. **Keep a journal with all of his observations.**
O C. Write down random ideas about his observations.
O D. Just keep observing.

Tuesday - Vocabulary Term of the Week
The Earth’s orbit is not quite circular. We call this a(an)
O A. egg orbit.
O B. cylindrical orbit.
O C. round orbit.
O D. **elliptical orbit.**

Wednesday - Misconception of the Week
What is wrong with this statement?
The sun is the largest star in the universe.
O A. There is nothing wrong with this statement.
O B. **The sun is a medium-sized star with larger stars in the universe.**
O C. The sun is the largest star in the galaxy.
O D. The sun is not a star.

Thursday - Graphic of the Week
Which layer is the youngest?
O A. 1
O B. **7**
O C. 4
O D. 5
1. The Earth’s ______orbit________ around the sun is elliptical.

2. Rocks can be found in ______layers________ and provide evidence of their age.

3. The __sun______ is the only star in our solar system.

4. Journals are an excellent place to record ___data____.

Construct a chart that shows the temperature over 5 days. Be sure to use labels on your chart.
### Monday - Process Skill of the Week
A 5th grade class is doing an investigation of signs of wildlife in the bushes on the playground. What precautions should the class take to have a safe investigation?

- **A. They should wear safety goggles and gloves.**
- **B. They should wear fireproof clothing.**
- **C. They should let adults do the investigation.**
- **D. There are no potential hazards.**

### Tuesday - Vocabulary Term of the Week
Meteorologists use which tool to measure air pressure?

- **A. a barometer**
- **B. a thermometer**
- **C. a rain gauge**
- **D. an anemometer**

### Wednesday - Misconception of the Week
What is wrong with this statement? Bats are birds because they have wings.

- **A. There is nothing wrong with this statement.**
- **B. Bats are reptiles.**
- **C. Bats are the only mammals that can fly.**
- **D. Bats are birds because they fly.**

### Thursday - Graphic of the Week
Ways to reducing the use of non-renewable resources

<table>
<thead>
<tr>
<th>Practice</th>
<th>Wear more clothes inside during the winter</th>
</tr>
</thead>
<tbody>
<tr>
<td>carpool to practice</td>
<td></td>
</tr>
<tr>
<td>ride your bicycle to practice</td>
<td></td>
</tr>
</tbody>
</table>

Which word will complete this table?

- **A. compost grass clippings**
- **B. use a solar-powered calculator**
- **C. walk to school instead of getting a ride**
- **D. water the lawn in the morning**
1. A barometer measures _____air pressure_______ in inches of mercury (in/Hg).

2. Fossil fuels are a ______non-renewable________ resource.

3. Bats are ____mammals______ that can fly.

4. It is important to protect yourself with ____safety____ equipment during science investigations.

You are conducting a science investigation that requires fire. Name two safety precautions that you can use during the investigation?
Monday - Process Skill of the Week

Helena and Ari were recording the daily temperature and then finding a weekly average. Helena found that the weekly average was 76°F and Ari found that it was 80°F. What is MOST likely the reason for the difference?

O A. They took the temperature at different times of the day.
O B. One measured in C° and the other in F°.
O C. They made up their data.
O D. 4°F is not a big discrepancy.

Tuesday - Vocabulary Term of the Week

Joel took these temperature measurements last week. He can describe his findings as

O A. a warming trend
O B. a cold front moving in
O C. the start of spring
O D. a cooling trend

Wednesday - Misconception of the Week

What is wrong with this statement?

Plants are not strong enough to breakdown rock.

O A. There is nothing wrong with this statement.
O B. Plants can breakdown rocks into smaller rocks over time.
O C. Only sedimentary rocks can be broken down plants.
O D. Only metamorphic rock can be broken down by plants.

Thursday - Graphic of the Week

How can we maintain our freshwater supply?

O A. We can recycle old newspapers.
O B. We can reuse our aluminum foil.
O C. We can reduce the use of water in our homes.
O D. We cannot maintain our freshwater supply.
1. When analyzing similar data taken by different people, it is important to justify any __differences/discrepancies__.

2. Larger rocks can be broken down into ___smaller____ rocks by plants over time.

3. Reducing the amount of water we use by ______taking shorter showers, turning off the water when we brush our teeth, etc________ can help maintain the resource.

4. After collecting and analyzing data, you should be able to come up with a reasonable ___explanation___ about the data.

Describe at least two ways that you can reduce the amount of water you use. Use words and pictures to explain your answer. Label all pictures.
### Monday - Process Skill of the Week

When threatened, an octopus can change color to blend in with its surroundings. Which question could scientists use to study this behavior?

- A. How big does an octopus get?
- B. What colors can the octopus change to when threatened?
- C. What happens when a natural predator swims near the octopus?
- D. How does the octopus produce a white color on the front of its body?

### Tuesday - Vocabulary Term of the Week

When examining soil you may find all of the following EXCEPT

- A. small rocks
- B. decomposed plant parts
- C. decomposed animal parts
- D. large rocks

### Wednesday - Misconception of the Week

What is wrong with this statement? Cumulonimbus clouds are tall and dense and can bring thunderstorms.

- A. There is nothing wrong with this statement.
- B. Cumulus clouds bring thunderstorms.
- C. Cumulonimbus clouds are wispy, high level clouds.
- D. Stratus clouds bring thunderstorms.

### Thursday - Graphic of the Week

Polar bears are well suited for the arctic ecosystem due to their physical adaptations. Their black skin provides

- A. camouflage in warmer weather.
- B. a way to cool down in warmer weather.
- C. a way to warm themselves in cold weather.
- D. camouflage in colder weather.
1. Small rocks and decomposed plant and animal parts make up ______ soil _______.

2. Thunderstorms are characteristic of _____ cumulonimbus ____________ clouds.

3. Black skin to absorb heat and wide paws to assist in swimming and navigating the snow and ice are two ______ adaptations _____ that make the arctic region a good ecosystem for polar bears.

4. When studying phenomena, scientists develop ____ questions ______ to guide them.

If you were studying the sleeping habits of cats, what would be a good guiding question?
Monday - Process Skill of the Week
The class was studying thermal energy. For their investigation they had 2 cups of boiling water, 4 butter pats, a 5 inch long plastic knife and an 8 inch long stainless steel knife. Which variable would cause the experiment results to be different between lab groups?
O  A. the boiling water  
O  B. the knives  
O  C. the butter pats  
O  D. the cups

Tuesday - Vocabulary Term of the Week
Which word explains the movement of sand by wind or water?
O  A. weathering  
O  B. deposition  
O  C. erosion  
O  D. landform

Wednesday - Misconception of the Week
What is wrong with this statement?
Freezing and thawing is a rapid process that changes the surface of the Earth.
O  A. There is nothing wrong with this statement.  
O  B. Freezing and thawing does not change the Earth’s surface.  
O  C. Freezing and thawing do not affect the Earth’s surface.  
O  D. Freezing and thawing is a slow process that changes the surface of the Earth

Thursday - Graphic of the Week
Volcanoes are natural phenomena that change the face of the Earth. This kind of change is
O  A. a slow process.  
O  B. a rapid process.  
O  C. deposition.  
O  D. weathering.
1. A slow process that changes the face of the Earth is ______________________________.

2. A rapid process that changes the face of the Earth is ______________________________.

3. __________________________ is the movement of eroded materials by wind, water or ice.

4. All ________________________ must be accurately duplicated when comparing investigation/experiment results.

---

How can you make the investigation from Monday a fair one? Use words and pictures to explain your answer. Label all pictures.
**Monday - Process Skill of the Week**
You are working with a partner on an investigation. Your partner tells you that the instructions say to add some water. What should the instructions include so they are easily understood and replicable?
O  A. the amount of water
O  B. who should pour the water
O  C. how the water should be poured
O  D. why water is being used

**Tuesday - Vocabulary Term of the Week**
Resources like clean water and air are
O  A. non-renewable resources
O  B. fossil fuels
O  C. renewable resources
O  D. non-consumable resources

**Wednesday - Misconception of the Week**
What is wrong with this statement? Precipitation from clouds is called rain.
O  A. There is nothing wrong with the statement.
O  B. Precipitation can be rain, hail or snow.
O  C. Rain is not precipitation.
O  D. Rain is evaporation.

**Thursday - Graphic of the Week**
Photosynthesis
What provides the energy for photosynthesis?
O  A. the sun
O  B. the plant
O  C. producers
O  D. consumers
1. Producers make their own food by using ____________ from the sun.

2. Water in the air can be found in clouds, fog, sleet, hail or ____________.

3. Air is an inexhaustible resource but clean air is __________________________.

4. Easily understood records of an investigation are important so others can _______________ it.

Give one way that you can help maintain the resource of clean air. Use words and pictures to explain your answer. Label all pictures.
**Monday - Process Skill of the Week**
You are conducting an experiment to find out how calcium chloride reacts in water. Why is it important to wear safety goggles?

- A. to see better
- B. to protect your eyes
- C. to help speed the reaction
- D. to protect your hands

**Tuesday - Vocabulary Term of the Week**
Which movement of the Earth causes day and night?

- A. tectonic plate movement
- B. rotation
- C. revolution
- D. gravity

**Wednesday - Misconception of the Week**
What is wrong with this statement? There is a large storm cell in western Ohio and is moving west into Indiana.

- A. There is nothing wrong with this statement.
- B. Weather generally moves from north to south.
- C. Weather generally moves from west to east.
- D. The storm should be moving into Michigan.

**Thursday - Graphic of the Week**
This is a diagram of

- A. a life cycle.
- B. germination
- C. reproduction
- D. metamorphosis
1. We use science safety equipment to ________________ ourselves.

2. In general, weather in the United States moves from ________________ to ________________.

3. The rotation of the Earth on its axis causes _________________.

4. Germination is the sprouting of a ________________ from a seed.

Name two pieces of science safety equipment and their uses. Use words and pictures. Label all pictures.
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<td>Manufacturers package many of their products in recyclable materials. How can this be harmful to our environment?</td>
<td>What is the name of the path that the moon takes around the Earth?</td>
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<td>O A. There will be increased need for recycling.</td>
<td>O A. orbit</td>
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<tr>
<td>O B. There will be no harm to the environment.</td>
<td>O B. ellipse</td>
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<td>O C. If people do not recycle, the materials will end up in the landfill.</td>
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<td>O D. It is only harmful if all their materials are recyclable.</td>
<td>O D. revolution</td>
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<tr>
<td>What is wrong with this statement? Clean water is an inexhaustible resource.</td>
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<td>O A. There is nothing wrong with this statement.</td>
<td>O A. the universe.</td>
</tr>
<tr>
<td>O B. Clean water is a renewable resource that needs to be maintained.</td>
<td>O B. the atmosphere.</td>
</tr>
<tr>
<td>O C. Clean water is a non-renewable resource.</td>
<td>O C. the solar system.</td>
</tr>
<tr>
<td>O D. Clean water is not a resource.</td>
<td>O D. Earth’s topography.</td>
</tr>
</tbody>
</table>
1. The _________________ is a thin blanket of air that surrounds the Earth.

2. We can maintain the _________________ resource of clean water by not polluting our natural waterways.

3. The moon is a natural satellite that _________________ the Earth.

4. Sometimes a solution can cause another _________________.

Draw a diagram of the moon’s orbit around the Earth. Label all pictures.
### Monday - Process Skill of the Week
What procedure has been developed so we can safely smell things during an investigation?

- O A. wafting
- O B. we just lean into it and smell
- O C. there is no procedure
- O D. sniffing

### Tuesday - Vocabulary Term of the Week
Which slow process that changes the surface of the Earth is caused by the movement of tectonic plates?

- O A. volcanoes
- O B. earthquakes
- O C. freezing and thawing
- O D. earthquakes and volcanoes

### Wednesday - Misconception of the Week
What is wrong with this statement? Fossil fuels will replenish given a little time.

- O A. There is nothing wrong with the statement.
- O B. Fossil fuels do not need to be replenished.
- O C. Fossil fuels are formed over millions of years.
- O D. Fossil fuels will replenish within hours.

### Thursday - Graphic of the Week
Which instrument measures the air pressure?

- O A. the barometer
- O B. the anemometer
- O C. the thermometer
- O D. none of the above
1. Weather instruments are used to _______________ the weather.

2. Non-renewable resources cannot be renewed in our lifetime but they can be ________________.

3. ______________________ extends our sense of smell so that we can safely engage in scientific investigations.

4. Slow and rapid processes ________________ the surface of Earth.

Draw the instrument that measures the temperature. Label all pictures.
Daily Science Review #6 (GP3)

Name _____________________________   Date ___________________

Monday - Process Skill of the Week
When reporting findings of a science investigation you can write your results in a notebook. What other technology can you use?

O  A. a Magnadoodle™
O  B. a chalkboard
O  C. a computer
O  D. an abacus

Tuesday - Vocabulary Term of the Week
The energy of moving particles is heat energy or

O  A. thermal energy
O  B. nuclear energy
O  C. hydroelectric energy
O  D. solar energy

Wednesday - Misconception of the Week
What is wrong with this statement? Cutting a sheet of paper in half is a physical change.

O  A. There is nothing wrong with this statement.
O  B. Cutting paper is a chemical change because you cannot put it back together.
O  C. Cutting paper is neither a chemical nor a physical change.
O  D. Cutting paper is both a chemical and physical change.

Thursday - Graphic of the Week

<table>
<thead>
<tr>
<th>object</th>
<th>5 sec</th>
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<th>15 sec</th>
<th>20 sec</th>
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<td>A</td>
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<td>3ft</td>
<td>4ft</td>
</tr>
<tr>
<td>B</td>
<td>2ft</td>
<td>3ft</td>
<td>4ft</td>
<td>5ft</td>
</tr>
</tbody>
</table>

The chart above recorded data about the motion of two objects. What information can we obtain from this data?

O  A. Object A is heavier than Object B.
O  B. Object B is heavier than Object A.
O  C. Object A is faster than Object B.
O  D. Object B is faster than Object A.
1. A change of position is called _______________.

2. A __________________________ is a change from one form to another without turning into a new substance.

3. Thermal energy is measured with a ____________________________.

4. ________________ changes to meet our needs.

Name a technology and describe how it makes your life easier. Use words and pictures. Label all pictures.
### Monday - Process Skill of the Week

**Question:** In which way are computers harmful?

- O A. We are able to communicate with people all over the world.
- O B. They are not biodegradable.
- O C. They can help in recording data.
- O D. We have access to a lot of information.

### Tuesday - Vocabulary Term of the Week

**Question:** A chemical reaction is an indication that a(n)

- O A. physical change has occurred.
- O B. chemical change has occurred.
- O C. experiment is not working.
- O D. investigation is not working.

### Wednesday - Misconception of the Week

**Question:** What is wrong with this statement?

- O A. There is nothing wrong with this statement.
- O B. Thermal energy is not measurable.
- O C. Thermal energy is measured in meters.
- O D. Thermal energy is measured in centimeters.

### Thursday - Graphic of the Week

**Question:** What kind of force is applied to this stack of 4 steel balls to the left when the right one returns and hits them?

- O A. gravity
- O B. a pull
- O C. a push
- O D. magnetism
1. A ___________________ or a ___________________ are contact forces that move objects.

2. The average speed of the particles in a substance is its measurable ________________.

3. Technology can be beneficial or ____________________.

4. In a ________________ change, atoms and molecules can join together to form new substances.

---

Draw a picture of a person throwing a ball at a wall. Use arrows to show the motion of the ball. Label all pictures.
Monday - Process Skill of the Week
When revising a design, there are many things to consider. Which of the following is NOT something to consider?
- A. peer review
- B. experiment results
- C. thinking of new questions
- D. a worse way to accomplish your objectives

Tuesday - Vocabulary Term of the Week
Electric current in a circuit can produce all of the following EXCEPT
- A. thermal energy
- B. light
- C. sound
- D. gravity

Wednesday - Misconception of the Week
What is wrong with this statement?
The Earth is one of eight planets that orbit the sun.
- A. There is nothing wrong with this statement.
- B. There are nine planets.
- C. The sun orbits the Earth.
- D. The moon orbits the Earth.

Thursday - Graphic of the Week
This diagram shows
- A. the transfer of thermal energy.
- B. an investigation.
- C. temperature.
- D. changes in the state of matter.
1. Thermal energy moves in three different ways – convection, radiation and ________________. 

2. Earth is the _______________ of eight planets from the sun. 

3. Peer review is an important step in ________________ a design. 

4. The constant flow of electrons is called an electric current and can produce light, sound, magnetism and _______________. 

Draw a model of the solar system. Label all pictures.
### Monday - Process Skill of the Week
You designed a car for a downhill race. The wheels won’t stay inflated. What is the best possible solution to this design problem?
- A. change the length of the car
- B. change the material the tires are made of
- C. change the steering wheel
- D. change the energy source

### Tuesday - Vocabulary Term of the Week
Which of the following are properties of all matter?
- A. mass
- B. volume
- C. density
- D. all of the above

### Wednesday - Misconception of the Week
What is wrong with this statement?
The sun and all other stars are the same size.
- A. There is nothing wrong with the statement.
- B. The sun is not a star.
- C. Some stars are larger or smaller than the sun.
- D. The sun is the only star in the solar system.

### Thursday - Graphic of the Week
The chart above shows the average monthly precipitation for Akron. How much precipitation was there in October?
- A. about 2 quarts
- B. about 2 inches
- C. about 2 milliliters
- D. about 2 millimeters
1. Rain is collected and measured in a(n) _____________________.

2. The sun is a medium-sized _______________.

3. All matter has ________________, density and volume.

4. Brainstorming is one way to come up with possible _________________ to a design problem.

Give an example of each of the three states of matter. Use words and pictures. Label all pictures.
### Monday - Process Skill of the Week
The class was studying thermal energy. For their investigation they had 2 cups of boiling water, 4 butter pats, a 5 inch long plastic knife and an 8 inch long stainless steel knife. Which variable would cause the experiment results to be different between lab groups?

- A. the boiling water
- B. the knives
- C. the butter pats
- D. the cups

**Correct Answer:** C. the butter pats

### Tuesday - Vocabulary Term of the Week
Which word explains the movement of sand by wind or water?

- A. weathering
- B. deposition
- C. erosion
- D. landform

**Correct Answer:** C. erosion

### Wednesday - Misconception of the Week
What is wrong with this statement?
Freezing and thawing is a rapid process that changes the surface of the Earth.

- A. There is nothing wrong with this statement.
- B. Freezing and thawing does not change the Earth’s surface.
- C. Freezing and thawing do not affect the Earth’s surface.
- D. Freezing and thawing is a slow process that changes the surface of the Earth

**Correct Answer:** D. Freezing and thawing is a slow process that changes the surface of the Earth

### Thursday - Graphic of the Week
Volcanoes are a natural phenomena that changes the face of the Earth. This kind of change is

- A. a slow process.
- B. a rapid process.
- C. deposition.
- D. weathering.

**Correct Answer:** B. a rapid process.
1. A slow process that changes the face of the Earth is freezing and thawing or weathering etc.

2. A rapid process that changes the face of the Earth is landslides or volcanoes or earthquakes etc.

3. Deposition is the movement of eroded materials by wind, water or ice to a new place.

4. All variables must be accurately duplicated when comparing investigation/experiment results.

How can you make the investigation from Monday a fair one? Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
You are working with a partner on an investigation. Your partner tells you that the instructions say to add some water. What should the instructions include so they are easily understood and replicable?

- A. the amount of water
- B. who should pour the water
- C. how the water should be poured
- D. why water is being used

Tuesday - Vocabulary Term of the Week
Resources like clean water and air are

- A. non-renewable resources
- B. fossil fuels
- C. renewable resources
- D. non-consumable resources

Wednesday - Misconception of the Week
What is wrong with this statement? Precipitation from clouds is called rain.

- A. There is nothing wrong with the statement.
- B. Precipitation can be rain, hail or snow.
- C. Rain is not precipitation.
- D. Rain is evaporation.

Thursday - Graphic of the Week
What provides the energy for photosynthesis?

- A. the sun
- B. the plant
- C. producers
- D. consumers
1. Producers make their own food by using **energy** from the sun.

2. Water in the air can be found in clouds, fog, sleet, hail or **snow or rain**.

3. Air is an inexhaustible resource but clean air is **renewable**.

4. Easily understood records of an investigation are important so others can **duplicate or replicate** it.

Give one way that you can help maintain the resource of clean air. Use words and pictures to explain your answer. Label all pictures.
### Monday - Process Skill of the Week
You are conducting an experiment to find out how calcium chloride reacts in water. Why is it important to wear safety goggles?

- O A. to see better
- **O B. to protect your eyes**
- O C. to help speed the reaction
- O D. to protect your hands

**3.SI.C.4**

### Tuesday - Vocabulary Term of the Week
Which movement of the Earth causes day and night?

- O A. tectonic plate movement
- **O B. rotation**
- O C. revolution
- O D. gravity

**5.ES.A.1**

### Wednesday - Misconception of the Week
What is wrong with this statement? There is a large storm cell in western Ohio and is moving west into Indiana.

- O A. There is nothing wrong with this statement.
- O B. Weather generally moves from north to south.
- **O C. Weather generally moves from west to east.**
- O D. The storm should be moving into Michigan.

**4.ES.D.6**

### Thursday - Graphic of the Week
This is a diagram of

- O A. a life cycle.
- **O B. germination**
- O C. reproduction
- O D. metamorphosis

**4.ES.A.1**
<p>| | |</p>
<table>
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<tr>
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</table>
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   |   |
| 2. In general, weather in the United States moves from **west** to **east**.  
   |   |
| 3. The rotation of the Earth on its axis causes **day and night**.  
   |   |
| 4. Germination is the sprouting of a **plant** from a seed.  
   |   |

Name two pieces of science safety equipment and their uses. Use words and pictures. Label all pictures.
# Daily Science Review #4 (GP3)

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<td>What is the name of the path that the moon takes around the Earth?</td>
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<td>O D. It is only harmful if all their materials are recyclable.</td>
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5.ST.B.3

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<td>O C. Clean water is a non-renewable resource.</td>
<td>O C. the solar system.</td>
</tr>
<tr>
<td>O D. Clean water is not a resource.</td>
<td>O D. Earth’s topography.</td>
</tr>
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</table>

3.ESC.6

5.ESA.2

5.ESA.3
1. The __________ ____________ is a thin blanket of air that surrounds the Earth.

2. We can maintain the ________ renewable __________ resource of clean water by not polluting our natural waterways.

3. The moon is a natural satellite that ________ orbits ________ the Earth.

4. Sometimes a solution can cause another ________ problem ________.

Draw a diagram of the moon’s orbit around the Earth. Label all pictures.
### Monday - Process Skill of the Week
What procedure has been developed so we can safely smell things during an investigation?

- **A. wafting**
- **B. we just lean into it and smell**
- **C. there is no procedure**
- **D. sniffing**

### Tuesday - Vocabulary Term of the Week
Which slow process that changes the surface of the Earth is caused by the movement of tectonic plates?

- **A. volcanoes**
- **B. earthquakes**
- **C. freezing and thawing**
- **D. earthquakes and volcanoes**

### Wednesday - Misconception of the Week
What is wrong with this statement?
Fossil fuels will replenish given a little time.

- **A. There is nothing wrong with the statement.**
- **B. Fossil fuels do not need to be replenished.**
- **C. Fossil fuels are formed over millions of years.**
- **D. Fossil fuels will replenish within hours.**

### Thursday - Graphic of the Week
Which instrument measures the air pressure?

- **A. the barometer**
- **B. the anemometer**
- **C. the thermometer**
- **D. none of the above**
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<td>1. Weather instruments are used to <em><strong><strong><strong>measure</strong></strong></strong></em> the weather.</td>
<td></td>
</tr>
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<td>2. Non-renewable resources cannot be renewed in our lifetime but they can be <strong><strong><strong>reduced, reused and/or recycled</strong></strong></strong>_.</td>
<td></td>
</tr>
<tr>
<td>3. <em><strong><strong><strong>Wafting</strong></strong></strong></em>__ extends our sense of smell so that we can safely engage in scientific investigations.</td>
<td></td>
</tr>
<tr>
<td>4. Slow and rapid processes <em><strong><strong><strong>change</strong></strong></strong></em> the surface of Earth.</td>
<td></td>
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Draw the instrument that measures the temperature. Label all pictures.
Monday - Process Skill of the Week
When reporting findings of a science investigation you can write your results in a notebook. What other technology can you use?

O A. a Magnadoodle™  
O B. a chalkboard  
O C. a computer  
O D. an abacus

Tuesday - Vocabulary Term of the Week
The energy of moving particles is heat energy or

O A. thermal energy  
O B. nuclear energy  
O C. hydroelectric energy  
O D. solar energy

Wednesday - Misconception of the Week
What is wrong with this statement? Cutting a sheet of paper in half is a physical change.

O A. There is nothing wrong with this statement  
O B. Cutting paper is a chemical change because you cannot put it back together.  
O C. Cutting paper is neither a chemical nor a physical change.  
O D. Cutting paper is both a chemical and physical change.

Thursday - Graphic of the Week

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</table>

The chart above recorded data about the motion of two objects. What information can we obtain from this data?

O A. Object A is heavier than Object B.  
O B. Object B is heavier than Object A.  
O C. Object A is faster than Object B.  
O D. Object B is faster than Object A.
1. A change of position is called ________motion________.

2. A ________physical change_________ is a change from one form to another without turning into a new substance.

3. Thermal energy is measured with a ________thermometer_________.

4. ______Technology_______ changes to meet our needs.

Name a technology and describe how it makes your life easier. Use words and pictures. Label all pictures.
<table>
<thead>
<tr>
<th>Day</th>
<th>Question</th>
<th>Options</th>
<th>Correct Answer</th>
</tr>
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<tbody>
<tr>
<td>Monday</td>
<td>In which way are computers harmful?</td>
<td>A. We are able to communicate with people all over the world.</td>
<td>B. They are not biodegradable.</td>
</tr>
<tr>
<td></td>
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<td>C. They can help in recording data.</td>
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<td>D. We have access to a lot of information.</td>
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<tr>
<td>Tuesday</td>
<td>A chemical reaction is an indication that a(n)</td>
<td>A. physical change has occurred.</td>
<td>B. chemical change has occurred.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. experiment is not working.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C. investigation is not working.</td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>What is wrong with this statement? Thermal energy is measured in degrees.</td>
<td>A. There is nothing wrong with this statement.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Thermal energy is not measurable.</td>
<td></td>
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<td>C. Thermal energy is measured in meters.</td>
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<td>D. Thermal energy is measured in centimeters.</td>
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<td>Thursday</td>
<td>What kind of force is applied to this stack of 4 steel balls to the left when the right one returns and hits them?</td>
<td>A. gravity</td>
<td>C. a push</td>
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1. A _______push_______ or a _______pull_________ are contact forces that move objects.

2. The average speed of the particles in a substance is its measurable ______temperature/heat______.

3. Technology can be beneficial or ______harmful_________.

4. In a ______chemical______ change, atoms and molecules can join together to form new substances.

Draw a picture of a person throwing a ball at a wall. Use arrows to show the motion of the ball. Label all pictures.
### Monday - Process Skill of the Week
When revising a design, there are many things to consider. Which of the following is NOT something to consider?
- A. peer review
- B. experiment results
- C. thinking of new questions
- **D. a worse way to accomplish your objectives**

**Tuesday - Vocabulary Term of the Week**
Electric current in a circuit can produce all of the following EXCEPT
- A. thermal energy
- B. light
- C. sound
- **D. gravity**

### Wednesday - Misconception of the Week
What is wrong with this statement?
The Earth is one of eight planets that orbit the sun.
- A. There is nothing wrong with this statement.
- B. There are nine planets.
- C. The sun orbits the Earth.
- **D. The moon orbits the Earth.**

### Thursday - Graphic of the Week
This diagram shows
- **A. the transfer of thermal energy.**
- B. an investigation.
- C. temperature.
- D. changes in the state of matter.
1. Thermal energy moves in three different ways – convection, radiation and ________conduction______.

2. Earth is the ______third______ of eight planets from the sun.

3. Peer review is an important step in ________revising_______ a design.

4. The constant flow of electrons is called an electric current and can produce light, sound, magnetism and ____thermal energy______.

Draw a model of the solar system. Label all pictures.
Monday - Process Skill of the Week
You designed a car for a downhill race. The wheels won’t stay inflated. What is the best possible solution to this design problem?
O A. change the length of the car
O B. **change the material the tires are made of**
O C. change the steering wheel
O D. change the energy source

Tuesday - Vocabulary Term of the Week
Which of the following are properties of all matter?
O A. mass
O B. volume
O C. density
O D. **all of the above**

Wednesday - Misconception of the Week
What is wrong with this statement?
The sun and all other stars are the same size.
O A. There is nothing wrong with the statement.
O B. The sun is not a star.
O C. **Some stars are larger or smaller than the sun.**
O D. The sun is the only star in the solar system.

Thursday - Graphic of the Week
The chart above shows the average monthly precipitation for Akron. How much precipitation was there in October?
O A. about 2 quarts
O B. **about 2 inches**
O C. about 2 milliliters
O D. about 2 millimeters
1. Rain is collected and measured in a(n) **rain gauge**.

2. The sun is a medium-sized **star**.

3. All matter has **mass**, density and volume.

4. Brainstorming is one way to come up with possible **solutions** to a design problem.

Give an example of each of the three states of matter. Use words and pictures. Label all pictures.
Monday - Process Skill of the Week
Before you conduct an investigation, you claim that salt water will kill plants. Is this a fact or an opinion?
O  A. fact
O  B. opinion
O  C. neither
O  D. both

Tuesday - Vocabulary Term of the Week
We can sort objects based on their properties. Which is a property of all gases?
O  A. they all smell
O  B. they all have mass
O  C. they all can be seen
O  D. all of the above

Wednesday - Misconception of the Week
What is wrong with this statement? A toy car will travel just as fast on carpet as it will on a wood floor.
O  A. There is nothing wrong with the statement.
O  B. The toy car will move slower on the carpet due to friction.
O  C. The toy car will move faster on the carpet due to friction.
O  D. The toy car will move slower on the wood floor due to friction.

Thursday - Graphic of the Week
The diagram above is of a
O  A. ocean wave
O  B. brain wave
O  C. sound wave
O  D. none of the above
1. Sound waves are made up of compressions where air particles are pressed together and ____________ where the particles are spread apart.

2. Scientists conduct investigations and experiments to separate facts from ____________.

3. Friction is a ____________ that affects motion.

4. Another word for characteristic of a substance is ____________.

There is a box on the table with the following objects: baby bottle nipple, basketball, rain boots, and rubber bands. What is the property that they all have in common? What is another object that would belong in the box? Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Using the metric system, what unit of measure would you use to find the mass of a paper clip?
- A. ounces
- B. pounds
- C. grams
- D. kilograms
- 3.SIA.1

Tuesday - Vocabulary Term of the Week
The movement of heat or thermal energy is always from
- A. right to left.
- B. left to right.
- C. warmer object or area to cooler object or area.
- D. cooler object or area to warmer object or area.
- 5.PSD.1

Wednesday - Misconception of the Week
What is wrong with this statement? An electric circuit must be open in order for the current to move.
- A. There is nothing wrong with the statement.
- B. The circuit must be closed.
- C. The circuit must be open for a strong current.
- D. The circuit must be open for a weak current.
- 5.PSE.4

Thursday - Graphic of the Week
The chart above shows wavelength of a low pitch and high pitch whistle. What is the difference between the two?
- A. low pitch has increased vibrations
- B. low pitch has decreased vibrations
- C. high pitch has increased vibrations
- D. high pitch has decreased vibrations
- 5.PSF.7
1. To change the pitch of a sound, ________ are increased or decreased.

2. In order to conduct an electric current, a circuit must be ________.

3. The transfer of ________ energy moves from warmer objects or areas to cooler objects or areas.

4. Accurate linear ________ are important when collecting data in an experiment or investigation.

Draw a diagram of a closed circuit including wire, a light bulb, and a battery. Label all pictures.
### Monday - Process Skill of the Week
As a part of an experiment, Beth records the temperature of ice water. She recorded the temperature as 38°C. What error did she make?
- O A. ice water is too cold to measure
- O B. there was no error
- O C. she should have stirred the water
- O D. she should have recorded the temperature as 38°F

### Tuesday - Vocabulary Term of the Week
As a glacier melts and recedes it deposits materials that have been moved from one area to another. What is this deposition called?
- O A. erosion
- O B. moraine
- O C. sediment
- O D. weathering

### Wednesday - Misconception of the Week
What is wrong with this statement? Weathering is the gradual wearing down of the Earth’s surface by wind, water and ice.
- O A. There is nothing wrong with the statement.
- O B. The gradual wearing down is erosion.
- O C. The gradual wearing down is deposition.
- O D. Weathering is done by the climate.

### Thursday - Graphic of the Week
This is a diagram of rocks being weathered. What is the process called?
O A. freezing and thawing
O B. landslides
O C. earthquakes
O D. tectonic shift
1. Freezing and thawing is a ________________ process that changes the Earth’s surface over time.
2. Weathering can change the Earth’s surface by wind, water or ____________________.
3. Accurate __________ is important for a successful experiment or investigation.
4. Glaciers leave behind ridges of rocks called ____________________ as they recede.

You are working on an investigation looking at daily temperatures and gather the following data: 45°, 46°, 53°, 48°, 45° and 45°. Make a table to report your findings. Remember to label all of your columns.
### Monday - Process Skill of the Week
You are conducting an investigation using 3 identical plants. You place one in the window, one under a desk and another in the closet. Identify the variable you are testing.
- A. plant size
- B. plant growth
- C. plant location
- D. plant type

### Tuesday - Vocabulary Term of the Week
Which of the following is the energy of motion?
- A. kinetic
- B. potential
- C. solar
- D. none of the above

### Wednesday - Misconception of the Week
What is wrong with this statement?
Food is made in the roots of the plant.
- A. There is nothing wrong with the statement.
- B. Food is made primarily in the roots.
- C. Food is made primarily in the stem.
- D. Food is made primarily in the leaves.

### Thursday - Graphic of the Week
What slow change to the Earth’s surface is shown here?
- A. tectonic plates building folded mountains
- B. tectonic plates building fault-block mountains
- C. a landslide
- D. glacial moraine
1. The movement of _______________ over time can build mountains.

2. The primary role of the leaf in a plant is to make _______________.

3. _______________ are things that can change in an investigation or experiment.

4. Energy stored in an object is _______________.

Explain the need for the transfer of energy between the sun and plants. Use words and pictures. Label all pictures.
### Monday - Process Skill of the Week
Which statement is a testable hypothesis?
- **A.** Apples are good for you.
- **B.** Soup tastes better with salt.
- **C.** Sound travels faster in water than in air.
- **D.** There are many good designs for paper airplanes.

### Tuesday - Vocabulary Term of the Week
Dipping a piece of paper into colored water is an example of
- **A.** chemical change
- **B.** physical change
- **C.** exothermic reaction
- **D.** endothermic reaction

### Wednesday - Misconception of the Week
What is wrong with this statement?
Plants need oxygen in order to produce food.
- **A.** There is nothing wrong with the statement.
- **B.** Plants only need water to produce food.
- **C.** Plants need carbon dioxide to produce food.
- **D.** Plants produce food from the soil.

### Thursday - Graphic of the Week
Identify the consumer in this model.
- **A.** leaves
- **B.** heron
- **C.** frog
- **D.** slug, frog and heron
1. Consumers can be herbivores, carnivores or ____________________.

2. Plants use carbon dioxide and sunlight to make ________________.

3. A testable hypothesis should not include personal ________________.

4. Changes in color only are a ______________________________ change.

Draw an energy pyramid with producers, herbivores and carnivores. Use words and pictures to explain your answer. Label all pictures.
### Daily Science Review #6 (GP4)

**Name ___________________________   Date ___________________**

<table>
<thead>
<tr>
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<td>Which of the following would you use to measure the mass of a ping pong ball?</td>
<td>What is an anemometer used for?</td>
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<td>O A. graduated cylinder</td>
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<tr>
<td>O B. thermometer</td>
<td>O B. weighing objects</td>
</tr>
<tr>
<td>O C. balance scale</td>
<td>O C. determining wind direction</td>
</tr>
<tr>
<td>O D. hand lens</td>
<td>O D. measuring barometric pressure</td>
</tr>
</tbody>
</table>

**Wednesday - Misconception of the Week**

What is wrong with this statement?
Barometers measure air pressure in inches.

- O A. There is nothing wrong with the statement.
- O B. Barometers measure air pressure in centimeters.
- O C. Barometers measure air pressure in pounds.
- O D. Barometers measure air pressure in inches of mercury.

**Thursday - Graphic of the Week**

What is this a model of?

- O A. Earth’s orbit
- O B. the moon’s orbit
- O C. the solar system
- O D. the universe

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5.ES.A.2
1. It takes approximately 30 days for the _________________ to complete its orbit around the Earth.

2. A barometer measures ________________________ in inches of Mercury.

3. Wind speed is _____________________________ with an anemometer.

4. A _____________________________ is used to find the mass of an object.

Describe how to find the mass of a tennis ball. Use words and pictures. Label all pictures.
Monday - Process Skill of the Week
Two groups wanted to find out which playground balls would go farthest. They decided to let each ball roll down a ramp. Which of the following variables must remain constant if they want a fair test?
O A. size of ball
O B. incline of ramp
O C. weight of ramp
O D. none of the above

Tuesday - Vocabulary Term of the Week
What is the process by which water changes from a gas to a liquid?
O A. condensation
O B. evaporation
O C. precipitation
O D. alienation

Wednesday - Misconception of the Week
What is wrong with this statement? Weathering is the same as erosion.
O A. There is nothing wrong with the statement.
O B. Weathering is the breakdown of the rocks.
O C. Erosion is the transfer, by wind, water or ice, of the rocks to a new location.
O D. Both A and B

Thursday - Graphic of the Week
Is this an open or closed circuit?
O A. Open because the circuit is incomplete.
O B. Open so the current can flow.
O C. Closed because the circuit is incomplete.
O D. Closed so the current can flow.
1. An open circuit does not allow the ________________ to flow.

2. Erosion is evidence that ________________ has occurred.

3. Investigations have many variables, some of which should not ________________ in order to have a fair test.

4. The water cycle is one way that water changes its ________________.

If you were conducting an investigation in an attempt to answer whether or not plants will change color if they are watered with Kool-Aid®, what variable or variables should remain constant? Use words and pictures to explain your answer. Label all pictures.
<table>
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<th>Day</th>
<th>Question</th>
<th>Options</th>
<th>Standards</th>
</tr>
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| Monday - Process Skill of the Week | What is the first step in a science investigation or experiment? | O A. create a graph  
O B. research  
O C. form a hypothesis  
O D. draw conclusions | 3.ST.B.4, 5.PS.D.1 |
| Tuesday - Vocabulary Term of the Week | __________ is the measurement of ______________. | O A. circuit, temperature  
O B. thermal energy, temperature  
O C. temperature, circuit  
O D. temperature, thermal energy | |
| Wednesday - Misconception of the Week | What is wrong with this statement? Air is not matter because you cannot see it. | O A. There is nothing wrong with the statement.  
O B. Air is an abiotic.  
O C. Air has a fixed shape.  
O D. Air takes up space. | 4.PS.B.4 |
| Thursday - Graphic of the Week | Which phase of the moon will occur next? | O A.  
O B.  
O C.  
O D. | 5.ESA.2 |
1. Moon phases are actually the _________________ of light of the sun off the moon.

2. Air takes up space and therefore, is ___________________.

3. The measure of ___________________ is temperature.

4. There are many ________________ in a scientific investigation or experiment.

Explain what a New Moon is. Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Scientists who want to study volcanoes can use which of these tools?
O A. a thermometer to measure the temperature of the lava
O B. telescopes to view the volcano
O C. balance scale to weigh lava
O D. graduated cylinder to measure lava flow

Tuesday - Vocabulary Term of the Week
Which describes what soil is made of?
O A. dead plants and animals
O B. broken rocks
O C. minerals
O D. all of the above

Wednesday - Misconception of the Week
What is wrong with this statement?
Two magnets will always attract each other.
O A. There is nothing wrong with the statement.
O B. Magnets can repel each other.
O C. Magnets always repel each other.
O D. Magnetism is a force of motion.

Thursday - Graphic of the Week
According to the chart above, which biome is coldest?
O A. savanna
O B. tundra
O C. boreal forest
O D. polar
1. Ecosystems located in a ___________ biome have special adaptations to survive in the low temperatures.

2. Magnets can change the _________________ of an object.

3. Soil is made from broken rocks, dead plants and animals and _________________.

4. Scientists use tools that are appropriate and ____________ for an investigation or experiment.

Give an example of each of the three states of matter. Use words and pictures. Label all pictures.
Monday - Process Skill of the Week
Before you conduct an investigation, you claim that salt water will kill plants. Is this a fact or an opinion?
O  A. fact
O  B. opinion
O  C. neither
O  D. both

Tuesday - Vocabulary Term of the Week
We can sort objects based on their properties. Which is a property of all gases?
O  A. they all smell
O  B. they all have mass
O  C. they all can be seen
O  D. all of the above

Wednesday - Misconception of the Week
What is wrong with this statement?
A toy car will travel just as fast on carpet as it will on a wood floor.
O  A. There is nothing wrong with the statement.
O  B. The toy car will move slower on the carpet due to friction.
O  C. The toy car will move faster on the carpet due to friction.
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Thursday - Graphic of the Week
The diagram above is of a
O  A. ocean wave
O  B. brain wave
O  C. sound wave
O  D. none of the above
1. Sound waves are made up of compressions where air particles are pressed together and _______rarefactions_______ where the particles are spread apart.

2. Scientists conduct investigations and experiments to separate facts from _______opinions______.

3. Friction is a ______force______ that affects motion.

4. Another word for characteristic of a substance is ______property________.

There is a box on the table with the following objects: baby bottle nipple, basketball, rain boots and rubber bands. What is the property that they all have in common? What is another object that would belong in the box? Use words and pictures to explain your answer. Label all pictures.
**Monday - Process Skill of the Week**
Using the metric system, what unit of measure would you use to find the mass of a paper clip?

- O A. ounces
- O B. pounds
- O C. grams
- O D. kilograms

**Tuesday - Vocabulary Term of the Week**
The movement of heat or thermal energy is always from

- O A. right to left.
- O B. left to right.
- O C. warmer object or area to cooler object or area.
- O D. cooler object or area to warmer object or area.

**Wednesday - Misconception of the Week**
What is wrong with this statement? An electric circuit must be open in order for the current to move.

- O A. There is nothing wrong with the statement.
- O B. The circuit must be closed.
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**Thursday - Graphic of the Week**
The chart above shows wavelength of a low pitch and high pitch whistle. What is the difference between the two?

- O A. low pitch has increased vibrations
- O B. low pitch has decreased vibrations
- O C. high pitch has increased vibrations
- O D. high pitch has decreased vibrations
1. To change the pitch of a sound vibrations are increased or decreased.

2. In order to conduct an electric current a circuit must be closed or complete.

3. The transfer of thermal energy moves from warmer objects or areas to cooler objects or areas.

4. Accurate linear measurements are important when collecting data in an experiment or investigation.

Draw a diagram of a closed circuit including wire, a light bulb and a battery. Label all pictures.
Monday - Process Skill of the Week
As a part of an experiment, Beth records the temperature of ice water. She recorded the temperature as 38°C. What error did she make?
- A. ice water is too cold to measure
- B. there was no error
- C. she should have stirred the water
- D. she should have recorded the temperature as 38°F

Tuesday - Vocabulary Term of the Week
As a glacier melts and recedes it deposits materials that have been moved from one area to another. What is this deposition called?
- A. erosion
- B. moraine
- C. sediment
- D. weathering

Wednesday - Misconception of the Week
What is wrong with this statement? Weathering is the gradual wearing down of the Earth’s surface by wind, water and ice.
- A. There is nothing wrong with the statement
- B. The gradual wearing down is erosion.
- C. The gradual wearing down is deposition.
- D. Weathering is done by the climate.

Thursday - Graphic of the Week
This is a diagram of rocks being weathered. What is the process called?
- A. freezing and thawing
- B. landslides
- C. earthquakes
- D. tectonic shift
1. Freezing and thawing is a ______weatherring________ process that changes the Earth’s surface over time.

2. Weathering can change the Earth’s surface by wind, water or ______ice_________.

3. Accurate _____data_____ is important for a successful experiment or investigation.

4. Glaciers leave behind ridges of rocks called ______moraine_______ as they recede.

You are working on an investigation looking at daily temperatures and gather the following data: 45°, 46°, 53°, 48°, 45° and 45°. Make a table to report your findings. Remember to label all of your columns.
Monday - Process Skill of the Week
You are conducting an investigation using 3 identical plants. You place one in the window, one under a desk and another in the closet. Identify the variable you are testing.
O  A. plant size
O  B. plant growth
O  C. plant location
O  D. plant type

Tuesday - Vocabulary Term of the Week
Which of the following is the energy of motion?
O  A. kinetic
O  B. potential
O  C. solar
O  D. none of the above

Wednesday - Misconception of the Week
What is wrong with this statement?
Food is made in the roots of the plant.
O  A. There is nothing wrong with the statement.
O  B. Food is made primarily in the roots.
O  C. Food is made primarily in the stem.
O  D. Food is made primarily in the leaves.

Thursday - Graphic of the Week
What slow change to the Earth’s surface is shown here?
O  A. tectonic plates building folded mountains
O  B. tectonic plates building fault-block mountains
O  C. a landslide
O  D. glacial moraine
1. The movement of ____tectonic plates______ over time can build mountains.

2. The primary role of the leaf in a plant is to make ____food______.

3. ____Variables______ are things that can change in an investigation or experiment.

4. Energy stored in an object is ________potential energy________.

Explain the need for the transfer of energy between the sun and plants. Use words and pictures. Label all pictures.
### Monday - Process Skill of the Week
Which statement is a testable hypothesis?
- O A. Apples are good for you.
- O B. Soup tastes better with salt.
- **O C. Sound travels faster in water than in air.**
- O D. There are many good designs for paper airplanes.

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### Tuesday - Vocabulary Term of the Week
Dipping a piece of paper into colored water is an example of
- O A. chemical change
- **O B. physical change**
- O C. exothermic reaction
- O D. endothermic reaction

---

### Wednesday - Misconception of the Week
What is wrong with this statement?
Plants need oxygen in order to produce food.
- O A. There is nothing wrong with the statement.
- O B. Plants only need water to produce food.
- **O C. Plants need carbon dioxide to produce food.**
- O D. Plants produce food from the soil.

---

### Thursday - Graphic of the Week
Identify the consumer in this model.
- O A. leaves
- O B. heron
- O C. frog
- **O D. slug, frog and heron**
1. Consumers can be herbivores, carnivores or _______omnivores________.  
2. Plants use carbon dioxide and sunlight to make ______food_______.  
3. A testable hypothesis should not include personal ______opinion________.  
4. Changes in color only are a ____________physical___________ change.

Draw an energy pyramid with producers, herbivores and carnivores. Use words and pictures to explain your answer. Label all pictures.
### Monday - Process Skill of the Week
Which of the following would you use to measure the mass of a ping pong ball?
- A. graduated cylinder
- B. thermometer
- C. balance scale
- D. hand lens

### Tuesday - Vocabulary Term of the Week
What is an anemometer used for?
- A. measuring wind speed
- B. weighing objects
- C. determining wind direction
- D. measuring barometric pressure

### Wednesday - Misconception of the Week
What is wrong with this statement? Barometers measure air pressure in inches.
- A. There is nothing wrong with the statement.
- B. Barometers measure air pressure in centimeters.
- C. Barometers measure air pressure in pounds.
- D. Barometers measure air pressure in inches of mercury.

### Thursday - Graphic of the Week
What is this a model of?
- A. Earth’s orbit
- B. the moon’s orbit
- C. the solar system
- D. the universe
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<td>3.</td>
<td>Wind speed is <strong>measured</strong> with an anemometer.</td>
</tr>
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<td>4.</td>
<td>A <strong>scale (balance, spring etc)</strong> is used to find the mass of an object.</td>
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Describe how to find the mass of a tennis ball. Use words and pictures. Label all pictures.
**Monday - Process Skill of the Week**
Two groups wanted to find out which playground balls would go farthest. They decided to let each ball roll down a ramp. Which of the following variables must remain constant if they want a fair test?
- O A. size of ball
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What is the process by which water changes from a gas to a liquid?
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- O D. Both A and B

**Thursday - Graphic of the Week**
Is this an open or closed circuit?
- O A. Open because the circuit is incomplete.
- O B. Open so the current can flow.
- O C. Closed because the circuit is incomplete.
- O D. Closed so the current can flow.
1. An open circuit does not allow the _______ current _______ to flow.

2. Erosion is evidence that _______ weathering _______ has occurred.

3. Investigations have many variables, some of which should not _______ change _______ in order to have a fair test.

4. The water cycle is one way that water changes its _______ state of matter _______.

If you were conducting an investigation in an attempt to answer whether or not plants will change color if they are watered with Kool-Aid®, what variable or variables should remain constant? Use words and pictures to explain your answer. Label all pictures.
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Tuesday - Vocabulary Term of the Week
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O A. circuit, temperature
O B. thermal energy, temperature
O C. temperature, circuit
O D. temperature, thermal energy

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Air is not matter because you cannot see it.
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O B. Air is an abiotic.
O C. Air has a fixed shape.
O D. Air takes up space.

Thursday - Graphic of the Week
Which phase of the moon will occur next?
O A.
O B.
O C.
O D.
1. Moon phases are actually the ________ reflection________ of light of the sun off the moon.

2. Air takes up space and therefore, is _________ matter________.

3. The measure of _________ thermal energy________ is temperature.

4. There are many _________ steps________ in a scientific investigation or experiment.

Explain what a New Moon is. Use words and pictures to explain your answer. Label all pictures.
Monday - Process Skill of the Week
Scientists who want to study volcanoes can use which of these tools?
O  A. a thermometer to measure the temperature of the lava
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Tuesday - Vocabulary Term of the Week
Which describes what soil is made of?
O  A. dead plants and animals
O  B. broken rocks
O  C. minerals
O  D. all of the above

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O  A. There is nothing wrong with the statement.
O  B. Magnets can repel each other.
O  C. Magnets always repel each other.
O  D. Magnetism is a force of motion.

Thursday - Graphic of the Week
According to the chart above, which biome is coldest?
O  A. savanna
O  B. tundra
O  C. boreal forest
O  D. polar
1. Ecosystems located in a ______*polar_________ biome have special adaptations to survive in the low temperatures.

2. Magnets can change the ______*motion_________ of an object.

3. Soil is made from broken rocks, dead plants and animals and ______*minerals_________.

4. Scientists use tools that are appropriate and _____*safe_______ for an investigation or experiment.

Give an example of each of the three states of matter. Use words and pictures. Label all pictures.