

Practice OAT in Science On-line

1. Got to <http://www.ode.state.oh.us> click on Testing and Assessment

Ohio Department of Education

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Search GO

[advanced search](#)

Families Educators Administrators About ODE

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Sign In

Welcome to the Ohio Department of Education

TOOLS FOR TEACHERS

10,000 OHIO TEACHERS CAN'T BE WRONG...

SO JOIN THEM AND BE THE FIRST TO LEARN ABOUT:

- Classroom tools and tips
- Timely announcements affecting teachers
- Professional development and study opportunities
- Scholarship, award and recognition programs

SIGN UP FOR ODE'S E-MAIL NEWSLETTER JUST FOR TEACHERS

click on TOOLSFORTEACHERS@ODE.STATE.OH.US to get on the list

Upcoming Events

February State Board of Education Meeting
Feb 11 - Feb 12

2008 Ohio Policy and Leadership Forum: Economic-Education Summit
Feb 19 - Feb 20

UPDATED: 2008 Ohio Policy and Leadership Forum: Economic-Education Summit
Feb 19 - Feb 20

2. Click on Achievement Test

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Home > [Testing and Assessments](#)

Testing and Assessments

Information about legally mandated testing of Ohio students including diagnostic tests, achievement tests, Ohio Graduation Tests and proficiency tests

Achievement Tests
Required assessments that measure students on what they know and are able to do in mathematics, reading, science, social studies and writing, with administration to students spread out from third to eighth grade (replace Ohio's proficiency tests)

Alternate Assessments
A non-test method that documents access to grade-level content standards by students with significant cognitive disabilities at an alternate standard of achievement

Diagnostic Assessments
Tools that assess student strengths and weaknesses to inform instructional decisions

CTE Assessment Options and Industry Credentials
Information related to Ohio Career-Technical Competency Assessments (OCTCA) and optional industry-specific certificates and licenses that may be obtained by secondary students for selected workforce development programs, as outlined in the CTE Secondary Workforce Development Program Matrix

3. Click on Resources for Ohio Achievement Tests

Ohio Department of Education

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Search GO
advanced search

Home > Testing and Assessments > Achievement Tests

Achievement Tests

Required assessments that measure students on what they know and are able to do in mathematics, reading, science, social studies and writing, with administration to students spread out from third to eighth grade (replace Ohio's proficiency tests)

Content Types: [All](#) | [Content](#) | [Documents](#) | [Events](#) | [Form Builder](#) | [Links](#)

Results 1 - 4 of 4

- [Ohio Achievement Test Assessment Results](#)
Ohio Achievement Test assessment results reflect those students who were actually tested. These results do not include all students who did not take the test. ODE does not endorse the use of this ...
- [Blueprints for Ohio's Achievement Tests](#)
Test blueprints contain information about individual tests, including the number of test items and the number of points for each test item. In addition, test blueprints identify the number of test ...
- [Resources for Ohio's Achievement Tests](#)
Ohio's Grade 3-8 Achievement Tests in reading, mathematics, science, social studies and writing are aligned to Ohio's academic content standards. This page contains general information about these ...
- [Family Report Interpretive Guide for Ohio's Achievement Tests](#)
The Family Report Interpretive Guide is intended to be a resource for parents and families to understand their students' results on the Spring 2006 grades three through eight achievement tests. Sp ...

4. Click on Achievement Test Web site for Students and Families

Ohio Department of Education

Change Text Size: A A A

Search GO
advanced search

Home > Testing and Assessments > Achievement Tests > Content

Resources for Ohio's Achievement Tests

Ohio's Grade 3-8 Achievement Tests in reading, mathematics, science, social studies and writing are aligned to Ohio's academic content standards. This page contains general information about these tests for teachers, parents and students. Please click on the title below to open the document or a new window to a related Web site.

Documents

- [Family Report Interpretive Guide – Spring 2006 \(PDF\)](#)
- [Ohio Achievement Tests Performance Level Descriptors \(PDF\)](#)
- [Constructed Response Items on Ohio Achievement Tests and Available Resources \(PDF\)](#)

Related Web sites

- [Achievement Test Web site for Students and Families](#)
- [Ohio Achievement Tests Document Archive web site](#)

Contact Information
Office of Assessment
(614) 466-0223

Printer Friendly

Related Items

- [Ohio Achievement Test Assessment Results](#)
Ohio Achievement Test assessment results re ...
- [Blueprints for Ohio's Achievement Tests](#)
Test blueprints contain information about i ...
- [Family Report Interpretive Guide for Ohio's Achievement Tests](#)
The Family Report Interpretive Guide is int ...

5. Click on Practice for the Test

The Ohio Department of Education website features a navigation bar with icons for Portal, FAQs, Resources, and Survey. The main heading is "Ohio's Achievement Tests". Below this, a paragraph states: "The Ohio Achievement Tests for grades 3-8 measure students on what they know and are able to do in various subjects. Click on any of the boxes below to see actual test questions, read more about Ohio's Academic Content Standards and assessment system, and learn about additional resources for helping you students." Three buttons are listed: "What's Expected of Students" (understanding student expectations), "Practice for the Test" (circled in black, for getting ready for tests), and "Understand Test Results" (seeing actual questions and scores). A "Return to Ohio's Statewide Testing" button is also present. To the right is a vertical collage of educational icons including a microscope (science), a puzzle piece, a musical note, a flag with the equation $y=mx+b$, a graduation cap (English language arts), a pi symbol (mathematics), a cube with letters 'a' and 'b', a globe (social studies), and a question mark.

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6. Click on Student Practice For The Test

The Ohio Department of Education website shows the "Practice Test" section. The navigation bar includes "Portal", "Practice Test", "FAQs", "Resources", and "Survey". A message at the top says "Hello, you are not logged in." and there is a "HELP GUIDE" link. Two buttons are displayed: "Students Practice For The Test" (circled in black) and "Teachers Practice For The Test".

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7. Click on Tate a Test without Logging In

The screenshot shows the Ohio Department of Education website. The top navigation bar includes links for Portal, Practice Test, FAQs, Resources, and Survey. A green banner at the top indicates the user is not logged in. The main content area is titled 'Take a Practice Test' and includes an image of students at a desk. Below the image, there is text explaining that users can take a test without logging in. A 'Log In' button and a 'Forgot Password' button are visible. A 'Sign Up For New Account' button is also present. The 'Take a Test without Logging In' button is circled in black. A note below this button states: 'Note: Your test results will not be saved to your online portfolio. To save test results, you need to log in.'

Ohio Department of Education

Portal Practice Test FAQs Resources Survey

Hello, you are not logged in. [HELP GUIDE](#)

Take a Practice Test

In this section you will find actual test questions that can be used to get ready for the Ohio Achievement Tests.

After the test is taken, the scores are displayed on the multiple-choice section, and a report can be given to the teacher to score the constructed response questions.

To begin, you can use your User ID and Password, sign up for a new account, or take a test without logging in.

User ID:

Password:

[Log In](#)

[Forgot Password](#)

If your teacher created a User ID for you, enter that in the box below and click "Sign Up For New Account"

[Sign Up For New Account](#)

[Take a Test without Logging In](#)

Note: Your test results will not be saved to your online portfolio. To save test results, you need to log in.

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9. Click on Science

The screenshot shows the Ohio Department of Education website. The top navigation bar includes links for Portal, Practice Test, FAQs, Resources, and Survey. A green banner at the top indicates the user is logged in as 'uvzuecr (Student)'. The main content area is titled 'Take a Practice Test' and includes an image of students at a desk. Below the image, there are two numbered steps: 1. Select the Subject and Year, (to the right of the screen) you would like to take a test for; 2. Review your results at the end of the test. A 'Select a Test:' section is visible on the right, with a list of subjects: Math, Reading, Science, Social Studies, and Writing. The 'Science' option is circled in black.

Ohio Department of Education

Portal Practice Test FAQs Resources Survey

You are logged in as **uvzuecr (Student)** | [My Profile](#) | [HELP GUIDE](#) | [LOGOUT](#)

Take a Practice Test

- Select** the Subject and Year, (to the right of the screen) you would like to take a test for;
- Review** your results at the end of the test.

Select a Test:

- Math
- Reading
- Science**
- Social Studies
- Writing

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10. Click on 2006-2007 then click on Spring

The screenshot shows the Ohio Department of Education website. At the top left is the logo with the text "Ohio Department of Education". To the right are navigation icons for "Portal", "Practice Test", "FAQs", "Resources", and "Survey". A green bar below the navigation indicates the user is logged in as "uvzuecr (Student)" with a "My Profile" link. On the right of this bar are "HELP GUIDE" and "LOGOUT" buttons. The main content area is titled "Take a Practice Test" and includes an image of students at a desk. Below the title are two numbered instructions: "1. Select the Subject and Year, (to the right of the screen) you would like to take a test for;" and "2. Review your results at the end of the test." To the right is a "Select a Test:" menu with expandable categories: Math, Reading, Science, Grade 5, 2006-2007, Grade 8, Social Studies, and Writing. The "2006-2007" category is expanded, and the "Spring" option is circled. At the bottom of the page is a footer with links for "Ted Strickland, Governor", "Susan Tave Zelman, Supt. of Public Instruction", "Contact ODE", "Ohio Home", "ODE Home", and "User Support".

11. Click on Start Test

The screenshot shows the "Practice Test Instructions" page. At the top, it indicates the user is logged in as "uvzuecr (Student)" with a "My Profile" link. On the right are "HELP GUIDE" and "LOGOUT" buttons. The main heading is "Practice Test Instructions". Below the heading is the text: "This practice test is made up of actual test questions. To take the test online, click 'Start Test.'" At the bottom are two buttons: "Start Test" and "Print Test". The "Start Test" button is circled.

12. Choose an answer then click on Save and Continue. The next page will determine if the answer selected is correct and will give reasons for why the other answers are wrong.

Ohio Department of Education

Portal Practice Test FAQs Resources Survey

You are logged in as uvzuecr(Student) My Profile HELP GUIDE LOGOUT

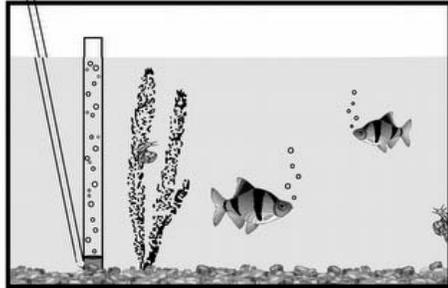
2006-2007 Science Grade 5

Go Back to Question Number ✓ = Correct Answer ✗ = Incorrect Answer ■ = Constructed Response ⚠ = Skipped Question

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Question 1

An air hose extends above and below the surface of the water.



Which statement explains why the air hose looks broken at the surface of the water?

→ A. Light is refracted as it moves from air to water.

B. Light is reflected as it moves from air to water.

C. Light is absorbed as it moves from air to water.

D. Light is destroyed as it moves from air to water.

Submit Test Skip Question **Save and Continue**

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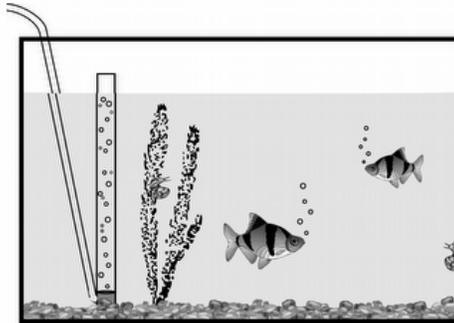
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Question 1

An air hose extends above and below the surface of the water.



Which statement explains why the air hose looks broken at the surface of the water?

- ✓ **A.** Light is refracted as it moves from air to water.

Light that moves from air to water is bent if it enters the water at an angle. The bending of the light as it travels from one material through a different material is called refraction. This makes the tube look bent.

- B.** Light is reflected as it moves from air to water.

If a student chooses B, he or she may be thinking of reflection instead of refraction. Reflection takes place when light travels in one direction through a material, reflects (bounces off a surface) and travels back through the same material in the same direction. Refraction takes place when light travels through one material to a new material and changes direction as it travels through the new material.

- C.** Light is absorbed as it moves from air to water.

If a student chooses C, he or she may be confusing refraction with absorption. If a lot of light energy is absorbed by the water, images in the fish tank look blurred. But absorption would not cause the air hose to look bent.

- D.** Light is destroyed as it moves from air to water.

If a student chooses D, he or she may think that as light enters a new material it is destroyed. Energy cannot be created or destroyed.

Submit Test

Next Question

Continue answer questions till the end and when the test is completed click on Submit test and it will give you results.

Reminder: None of the questions on this web site will be giving on the OAT. However, the graphics will be used again, have discussion on other ways to use the graphics.