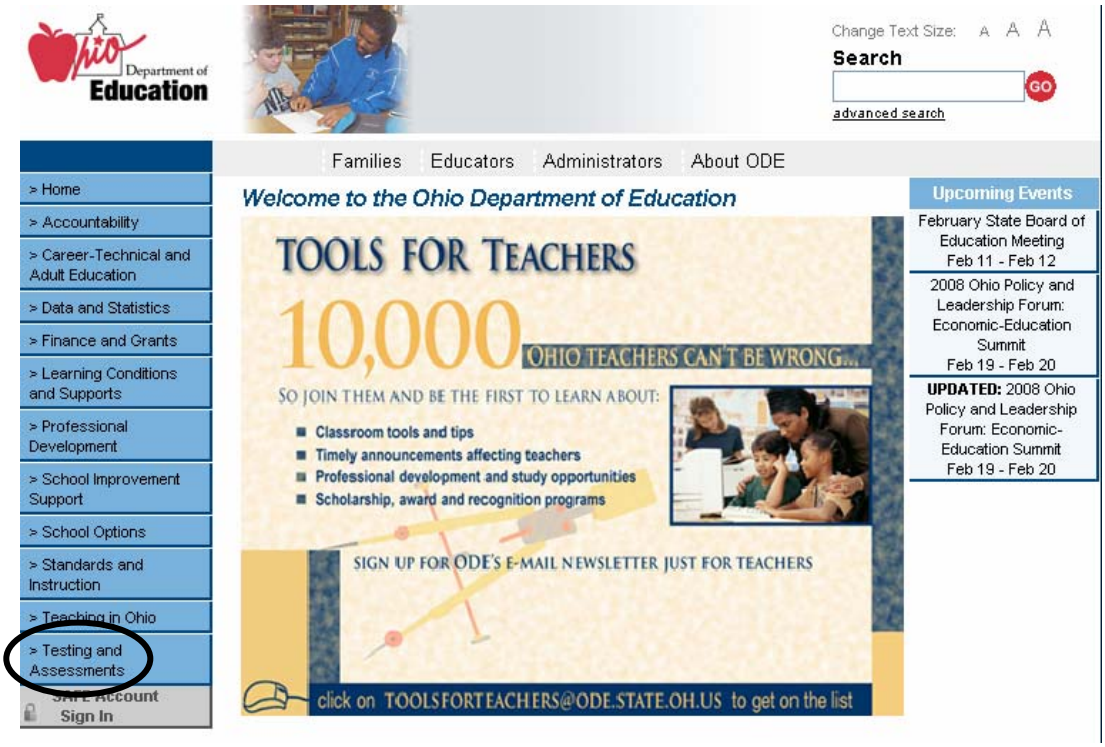
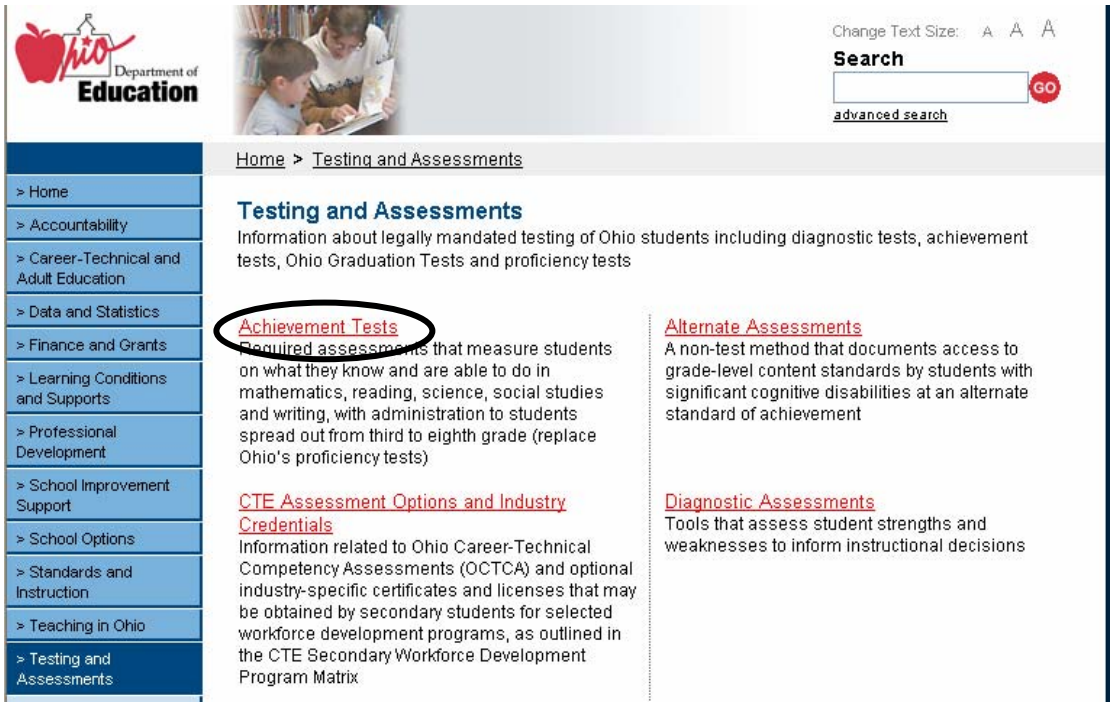
Practice OAT in Science On-line

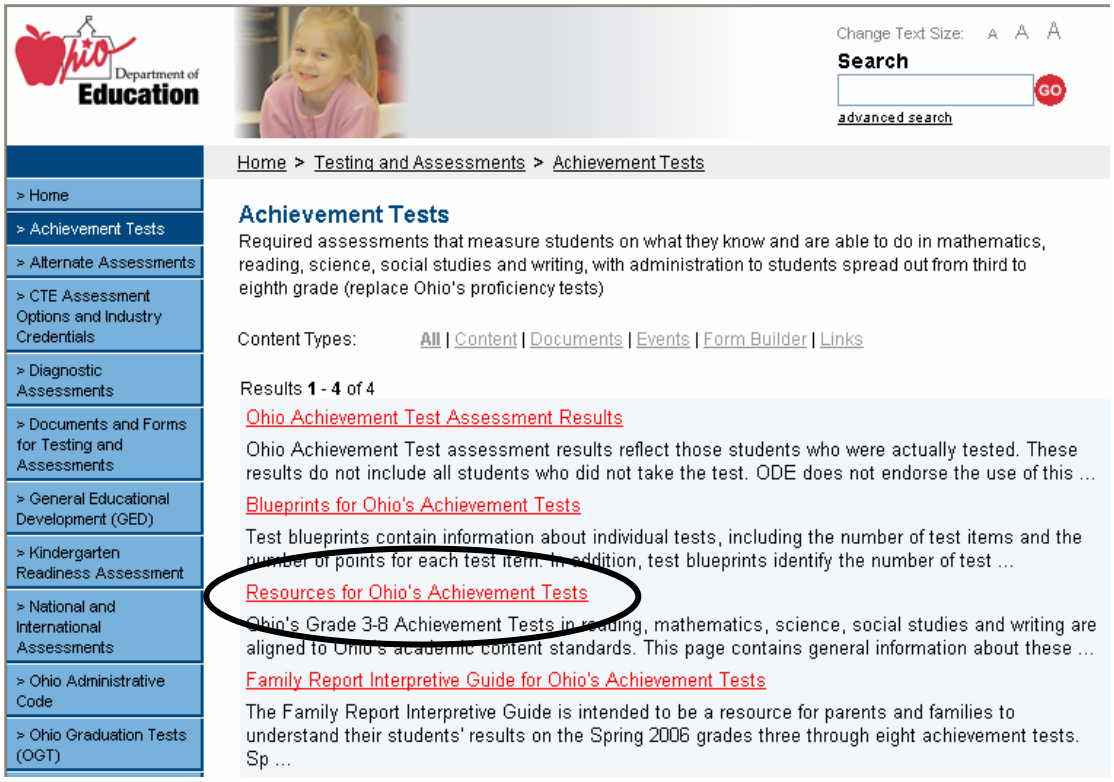
1. Got to http://www.ode.state.oh.us click on Testing and Assessment



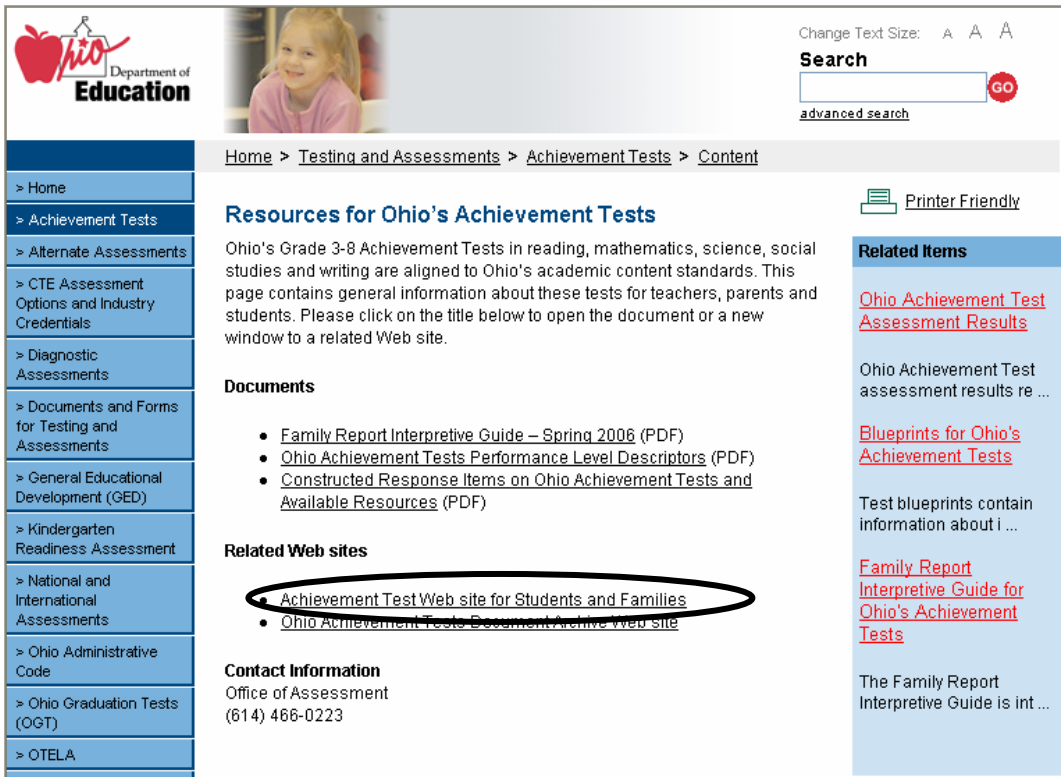
2. Click on Achievement Test



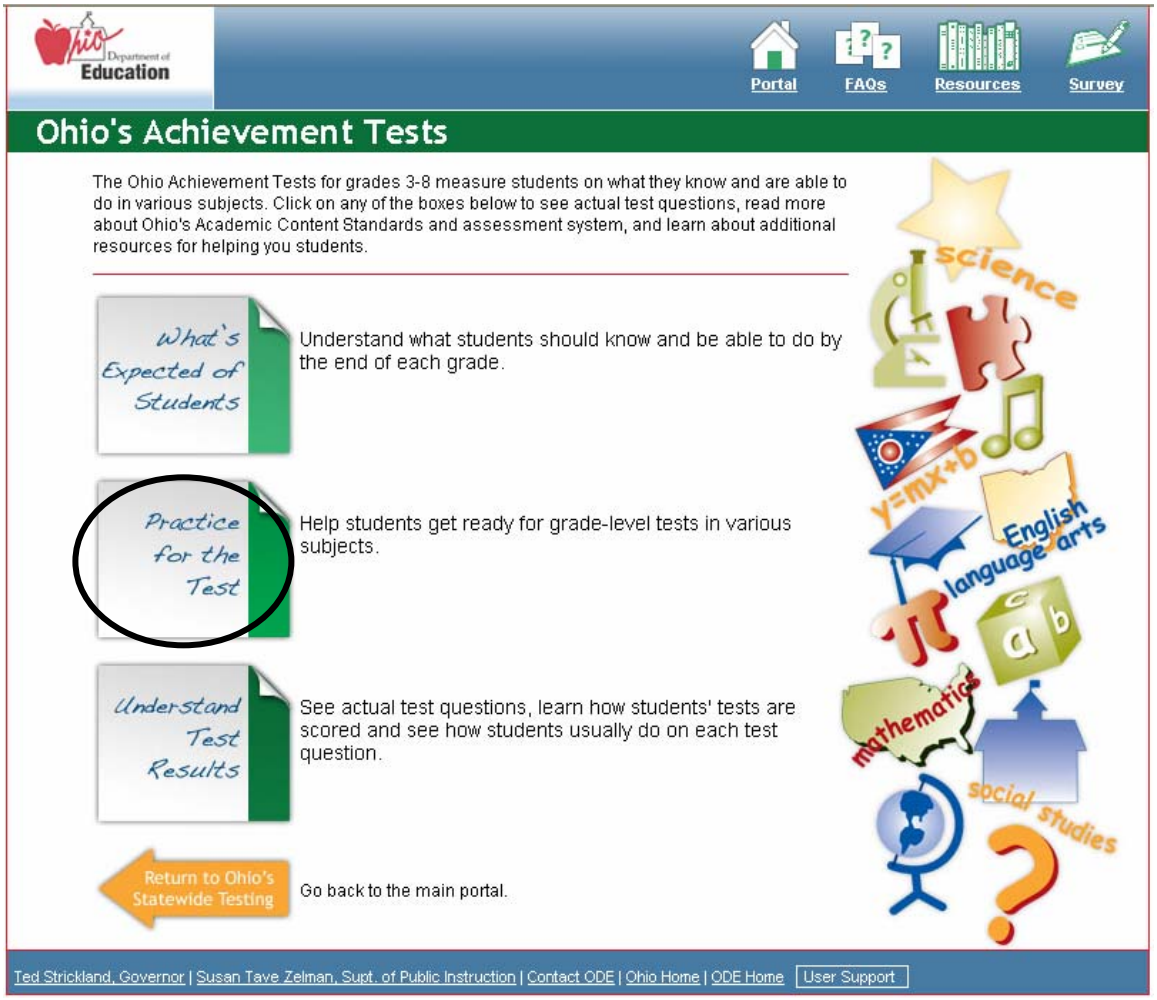
3. Click on Resources for Ohio Achievement Tests



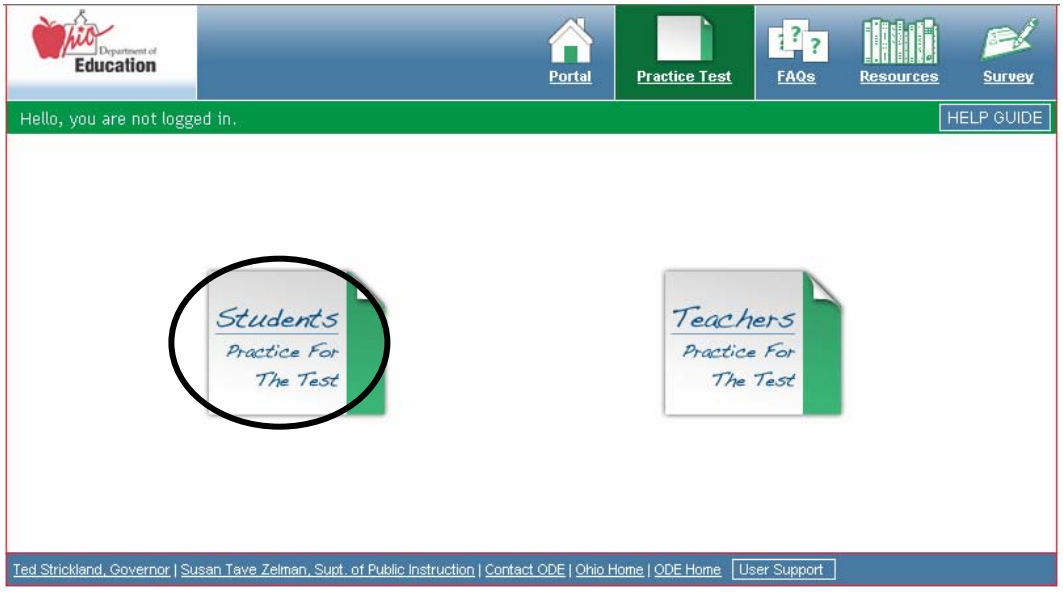
4. Click on Achievement Test Web site for Students and Families



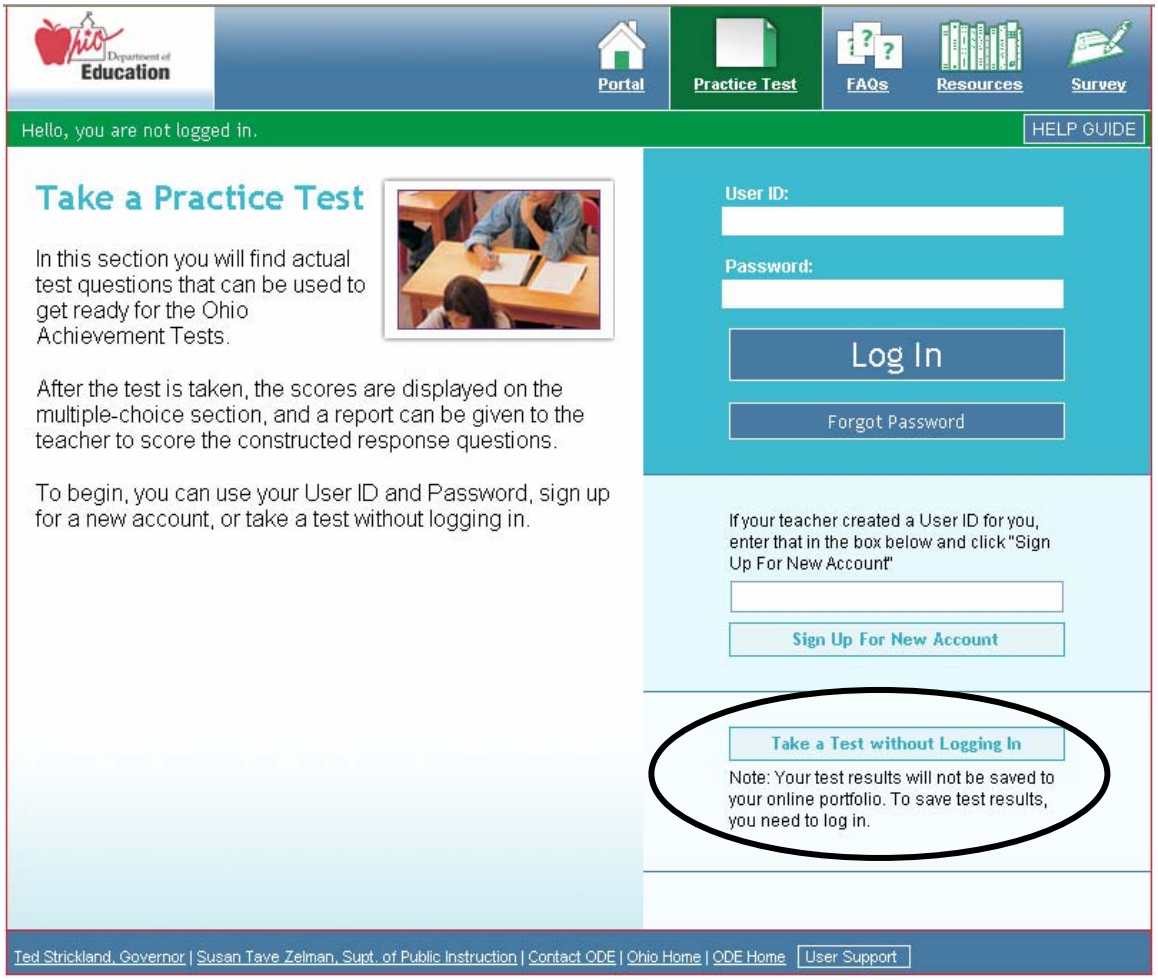
5. Click on Practice for the Test



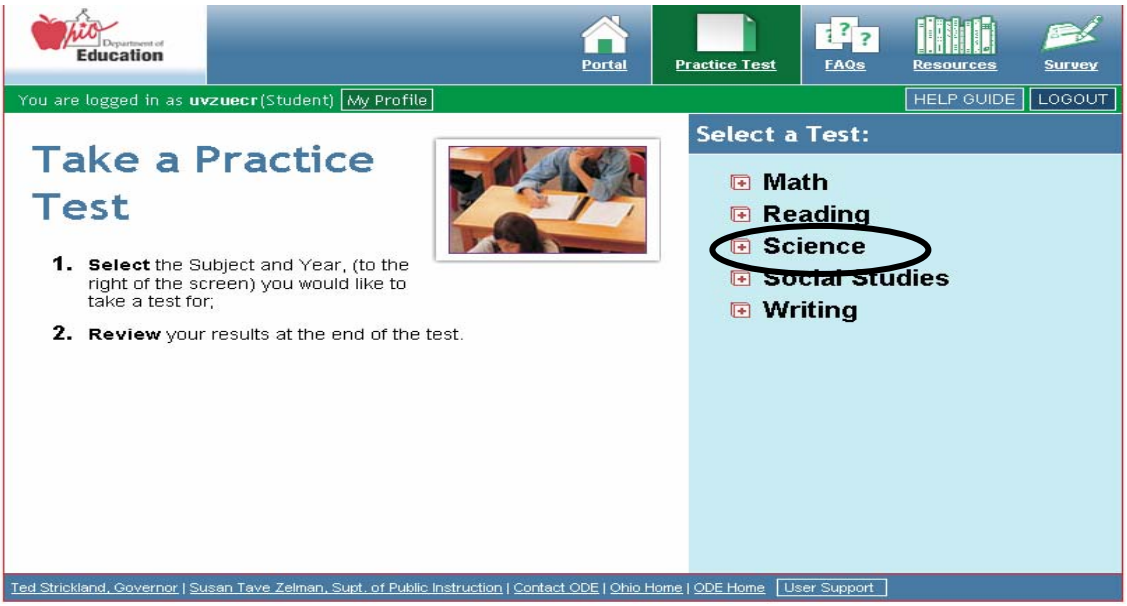
6. Click on Student Practice For The Test



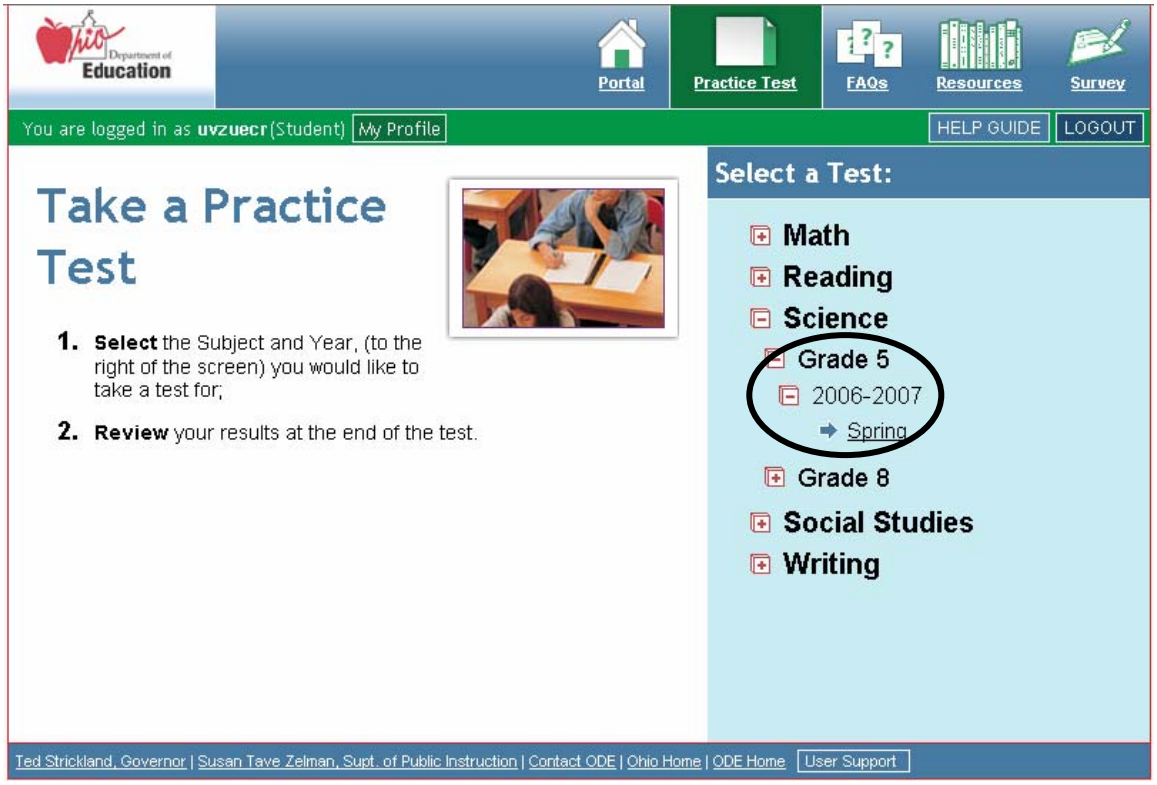
7. Click on Tate a Test without Logging In



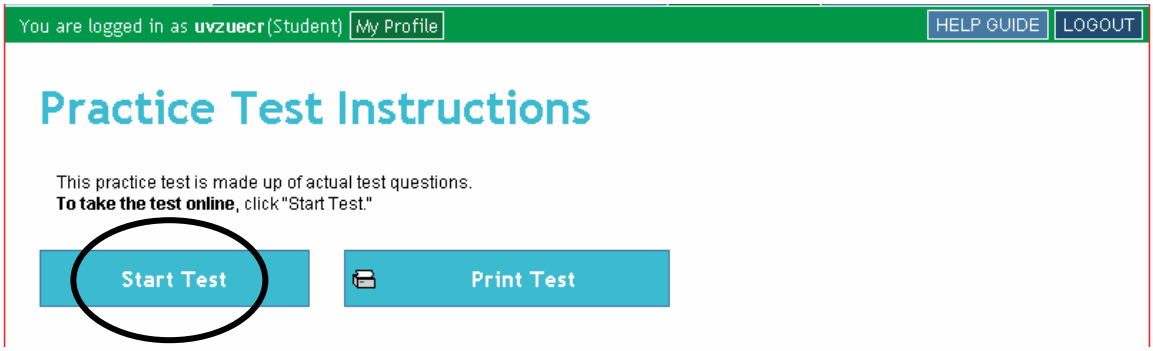
9. Click on Science



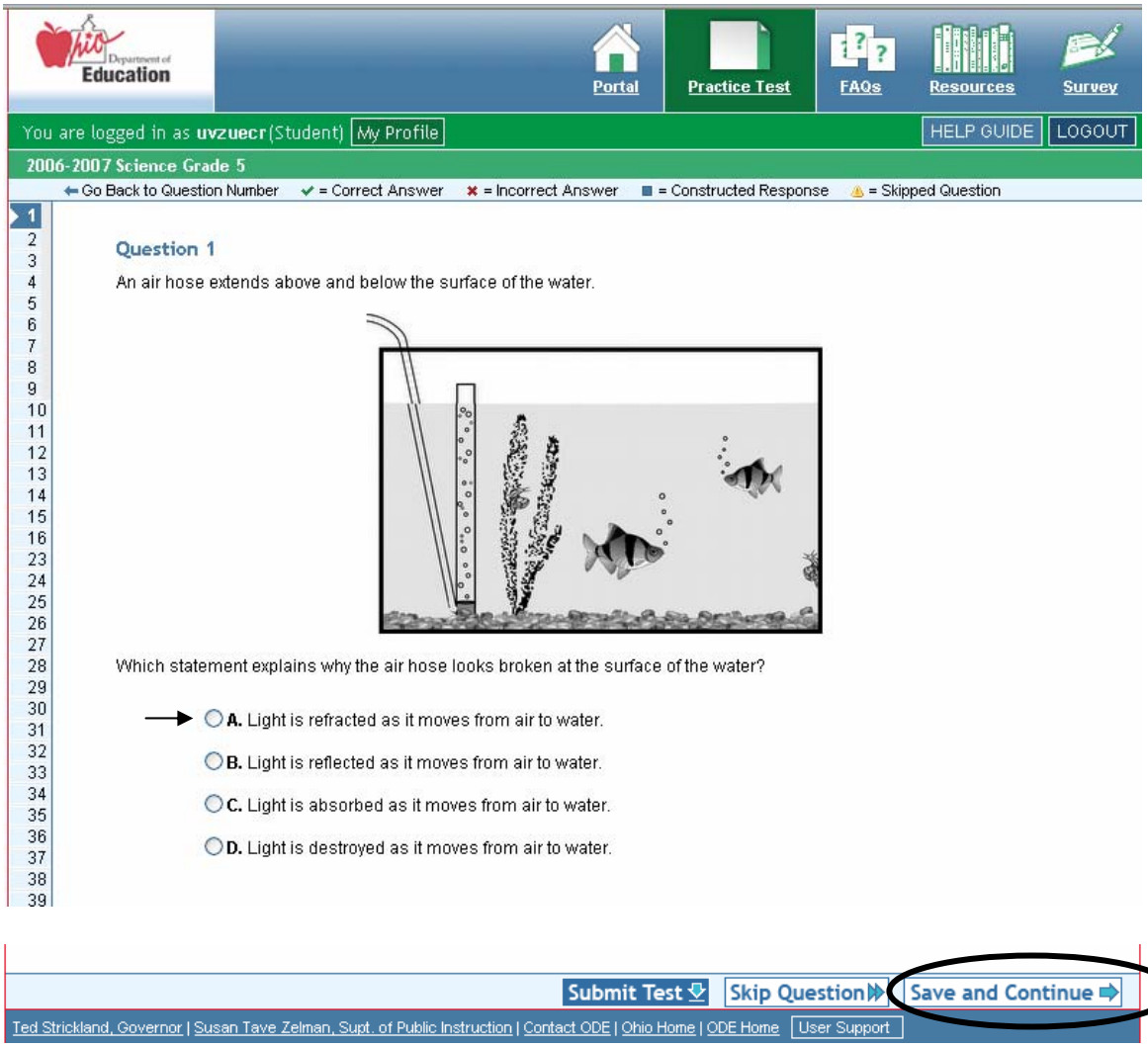
10. Click on 2006-2007 then click on Spring



11. Click on Start Test



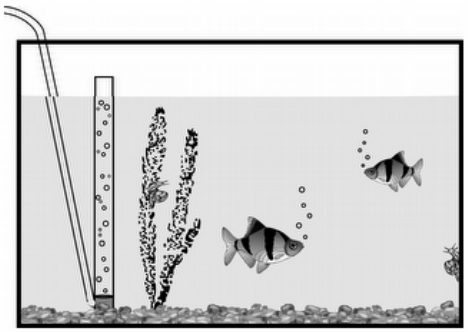
12. Choose an answer then click on Save and Continue. The next page will determine if the answer selected is correct and will give reasons for why the other answers are wrong.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

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.

<u>Reminder:</u> 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.