

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR SCIENCE, GRADE 8**

*(Test items developed for skills measured in CAT-5\*)*

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Skills

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|---|--|
| 1.0 Science   | 1.3 Demonstrating Application of the Facts, Principles, and Concepts Used in the Fields of Earth and Space Science |
| 1.1 Demonstrating Applications of the Facts, Principles, and Concepts Used in the Fields of Plant Biology and Ecology | 1.4 Demonstrating Facility in the Process Skills Critical to Scientific Study and Investigation                    |
| 1.2 Demonstrating Application of the Facts, Principles, and Concepts Used in the Fields of Physics and Chemistry      |  |
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(OVER)

## CAT-5 SCIENCE PRACTICE TEST - GRADE 8

1. Organisms that are neither plants nor animals are called  
A. protists      B. scavengers      C. mammals      D. spores

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2. If you were doing an experiment to prove that a plant must have sunlight to grow, why would you need to put a plant in total darkness in addition to putting a plant in the sunlight?  
A. to have an additional plant if the first plant dies  
B. to compare with the other plant to monitor growth  
C. to see which plant will grow the fastest  
D. to use two different types of fertilizers

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3. Fertilization of a flower occurs by  
A. pollen grains being deposited on the pollen tube  
B. the union of pollen grain and ovule  
C. the union of sperm from pollen grain and egg  
D. pollen grain moving into the ovule

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4. The scales on fish help the fish in what way?  
A. They help fish glide through the water.  
B. They protect the fish from predators and larger fish.  
C. They act as insulation for the fish.  
D. They keep the animal from being caught.

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5. A moss is small, vascular, and produces spores. They are attached to the ground by hairlike threads. Mosses are usually found where there is much moisture, like forests and other wet, shady places. They often grow in clumps and can hold water like a sponge. Mosses are classified as  
A. animals      B. trees      C. plants      D. flowers

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