

SKILLS LIST and SAMPLE ITEMS FOR

PRACTICE TEST, SCIENCE, GRADE 4

(Test items developed for skills measured in TERRA NOVA [CTBS]*)

Skills

- | | | | |
|-----|--|-----|--|
| 1.0 | Fundamental Concepts | 5.0 | Science and Technology |
| 1.1 | Understanding of the
Fundamental Concepts of
Science Inquiry | 5.1 | Understanding of How
Technology and Science
Interact |
| 2.0 | Physical Science | 6.0 | Personal and Social
Perspectives in Science |
| 2.1 | Fundamental Concepts and
Principles of Physical
Science | 6.1 | Personal and Social
Issues |
| 2.2 | Light/Heat/Electricity | 7.0 | History and Nature of Science |
| 3.0 | Life Science | 7.1 | Science as a Human
Endeavor |
| 3.1 | Fundamental Concepts and
Principles of Life | 8.0 | Thinking Skills |
| 3.2 | Apply Concepts | 8.1 | Generate Ideas |
| 4.0 | Earth and Space Science | 8.2 | Gather Information |
| 4.1 | Fundamental Concepts and
Principles of Earth and
Space Science | 8.3 | Organize Information |
| 4.2 | Apply Concepts | 8.4 | Analyze Information |
| | | 8.5 | Synthesize Elements |
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Number of questions: 40

Number of pages: 13

Approximate testing time: 40 minutes

CTBS and CAT are parallel tests

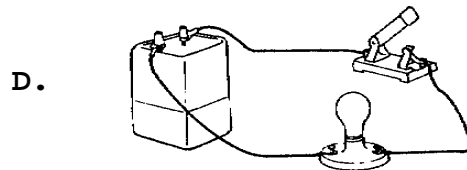
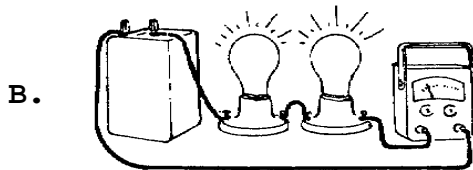
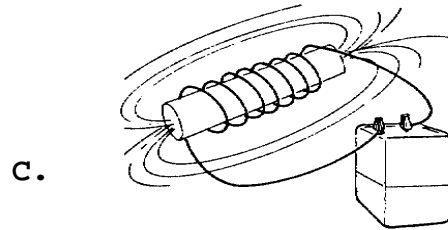
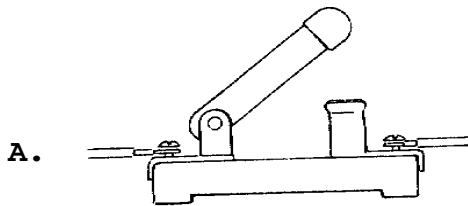
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Terra Nova PRACTICE TEST IN SCIENCE - GRADE 4

Directions: Read each item in this test and choose the correct answer. If a correct answer is not here, mark the choice for NH.

1. Aaron conducted an experiment about electricity. He wanted to see how a series circuit worked. Which picture shows Aaron's experiment?



Test Results for Electrical Conduction

Object Tested	Light
wooden pencil	off
metal paper clip	on
toothpick	off
metal spoon	on
match	off

2. Kismet and John made an electric circuit with a battery and a light bulb to test different objects to see if they can conduct electricity. Each object was connected to the circuit. The results are shown on the graph. The experiment shows that electricity is conducted by

- | | |
|--------------------|------------------|
| A. plastic objects | C. metal objects |
| B. wooden objects | D. glass objects |

3. Rocks that have been changed by heat and pressure are called

- | | |
|----------------|----------------|
| A. slate | C. sedimentary |
| B. metamorphic | D. limestone |