

SKILLS LIST and SAMPLE ITEMS FOR

PRACTICE TEST, SCIENCE, GRADE 7

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

Skills

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| 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 | 8.0 Thinking Skills |
| 3.2 Apply to Real-World Context | 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 |
| | 8.4 Analyze Information |
| | 8.5 Synthesize Elements |
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Number of questions: 40

Number of pages: 14

Approximate testing time: 40 minutes

CTBS and CAT are parallel tests

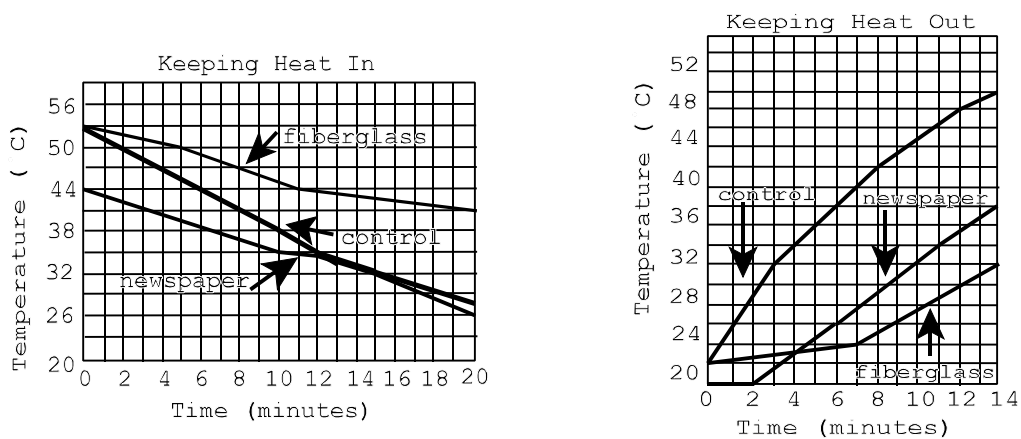
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Terra Nova PRACTICE TEST IN SCIENCE - GRADE 7

Directions: Read the paragraph below and study the graphs to answer Number 1.

Susan carried out two experiments and summarized her results on the graphs below. In the Keeping Heat In experiment, soda cans painted black were filled with hot water. One can was wrapped with a 1 cm layer of fiberglass, another can with a 1 cm layer of newspaper, and the third can was not wrapped. In the Keeping Heat Out experiment, Susan used the same three black soda cans, but there was no water in the cans. The first two cans were lined with fiberglass and newspaper respectively, and the three cans were placed in the sun.



1. What general conclusion can you draw from the graphs?
- All materials have the same insulating quality.
 - There was more temperature change observed with the fiberglass.
 - All materials do not have the same insulating qualities.
 - Newspaper is the better insulator.

2. Which of these uses of sound is most like the use shown in the drawing of a ship?

- elephants communicating with each other
- doctors making a sonogram
- doctors shattering kidney stones
- workers welding metal together

