

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST FOR SCIENCE, GRADE 4
(Test items developed for skills measured in CRCT)

Skills

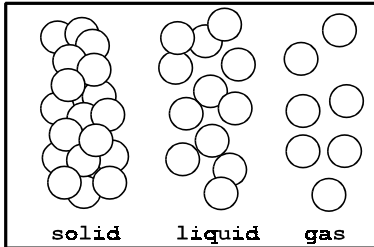
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|---|--|
| 1.0 Physical Science | 3.0 Earth/Space Science |
| 1.1 Basic Concepts of Magnetism | 3.1 Solar System and Earth's Movement |
| 1.2 Relationship of Magnetism and Electricity | 3.2 Water Cycle |
| 1.3 Electricity | 3.3 Weather and Climate |
| 1.4 Sounds | 3.4 Characteristics of Solar System |
| 1.5 Characteristics of Light | 3.5 Meteors, Comets |
| 2.0 Life Science | 3.6 Technological Devices and Resources |
| 2.1 Roles of Plants and Animals | 4.0 Inquiry |
| 2.2 Nutrients, Producers, Consumers, Decomposers How Matter and Energy Relate | 4.1 Observing, Classifying, Measuring, Communicating, Predicting, Concluding |
| 2.3 Pollution - Causes and Solutions | 4.2 Using Reference Materials |
| 2.4 Recycling | 4.3 Safety Procedures |
| | 4.4 Using Correct Tools |
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(OVER)

CRCT PRACTICE TEST IN SCIENCE - GRADE 4 - FORM A

1. Molecules in solids are closer together than molecules in liquids or gases. Which would conduct sound better?

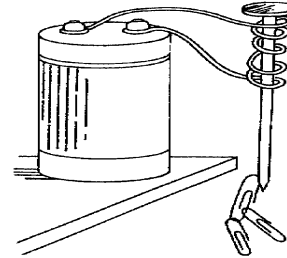


- A. solids
 B. liquids
 C. gases
 D. all are the same
2. Kismet and John made an electric circuit with a battery and a light bulb to test different objects to see if they can conduct electricity. Each object was connected to the circuit. The results are shown on the table below. The experiments show that electricity is conducted by

Test Results for Electrical Conduction	
Object Tested	Light
wooden pencil	off
metal paper clip	on
toothpick	off
metal spoon	on
match	off

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

3. What are the nail and wire in this picture called?



- A. a battery
 B. an electrical circuit
 C. a closed circuit
 D. an electromagnet

COMMON POLLUTANTS

Chemical	Sources	Effects
Benzene	A part of gasoline; found in some inks and paints; used to make some detergents	Can pollute air, land, and water; can cause cancer in humans
Vinyl chloride	Used in the production of a common plastic	Pollutes air; can cause cancer in humans
Mercury	Used to make chemicals, paint, batteries, and electrical switches; emitted by power plants and incinerators	Pollutes air, water, and land; builds up in animals and humans; can kill wildlife; at high doses can cause damage to human nervous system
Sulfur dioxide	Burning of fossil fuels in power plants and industry	Pollutes land, air, and water; helps cause acid rain, which can kill plants and sea life

4. Which pollutants can cause damage to a human nervous system?
- A. Sulfur dioxide
 B. Mercury
 C. Vinyl chloride
 D. Benzene