

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST, SCIENCE, GRADE 8

(Test items developed for skills measured in FCAT)

Skills

- | | |
|---------------------------------------|---------------------------------------|
| 1.0 Matter | 5.0 Earth and Space Science |
| 1.1 Properties of Matter | 5.1 Objects in the Sky |
| 1.2 Basic Principles of Atomic Theory | 5.2 The Universe |
| 2.0 Energy | 6.0 Life Science |
| 2.1 Properties of Energy | 6.1 Living Things |
| 2.2 Interaction of Matter and Energy | 6.2 Genetic Diversity |
| 3.0 Force and Motion | 7.0 Environment |
| 3.1 Types of Matter | 7.1 Renewable/Non-Renewable Resources |
| 3.2 Types of Force | 8.0 Nature of Science |
| 4.0 Earth Science | 8.1 Problem Solving |
| 4.1 Processes That Shape Earth | 8.2 Natural Events |
| 4.2 Protection of Earth Systems | 8.3 Science/Technology/Society |
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Number of questions: 64

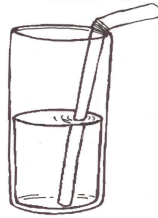
Number of pages: 11

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(OVER)

FCAT PRACTICE TEST IN SCIENCE - GRADE 8

1. Why is it possible to see the straw inside the glass of water?



- A. The glass and the water are transparent.
B. The glass and the water are opaque.
C. The straw is translucent.
D. The glass is opaque.
2. Which of the following is not a characteristic of energy, regardless of type?
- A. It is the ability to work.
B. Energy may be lost due to changes from potential to kinetic.
C. It can interchange between potential and kinetic.
D. It cannot be created or destroyed.
3. A boat's velocity was 4 meters/second (m/sec). Thirty seconds later it reached 8 meters/second (m/sec). What was its acceleration?
- A. 120 meters/second/second (m/sec/sec)
B. 2.5 meters/second/second (m/sec/sec)
C. 0.13 meters/second/second (m/sec/sec)
D. 0 meters/second/second (m/sec/sec)
4. Which of the following is not a system of Earth?
- A. hydrosphere
B. atmosphere
C. geosphere
D. plasmosphere

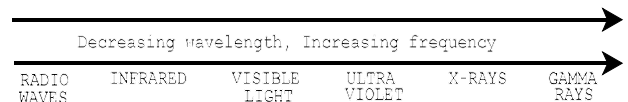
5. The average surface temperature of the sun is about 5500°C . What type of star has a lower average surface temperature?

A. blue supergiant
B. white dwarfs
C. red giants
D. blue giants

6. Which part of the nervous system controls body temperature?

A. brainstem
B. spinal cord
C. cerebellum
D. sense organs

7. The arrangement of electromagnetic spectrum is in order of the wavelengths.



Which of the following has the most energy?

A. Infrared
B. X-Rays
C. Radio Waves
D. Visible Light

8. A recent study in California found that adult owls could adjust to wearing glasses that altered what they saw even though it did not fit what they could hear. What theory could be challenged by this new information?

A. Owls prefer to eat mice instead of snakes.
B. Adult minds can not adapt to change.
C. Prescription glasses improve human eyesight.
D. Owls only hunt by hearing.