

Georgia
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6th Grade Science Quiz

Sixth Grade Science
Quiz

Practice Test

Name: _____

Date: _____

Instructions:

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1. When you push a swing to start it moving, you are demonstrating the principle of

- A. gravity.
 - B. mass.
 - C. inertia.
 - D. friction.
-

2. The amount of matter in an object is called its

- A. weight.
 - B. gravity.
 - C. mass.
 - D. force.
-

3. Which measurement is equal to 15 cm?

- A. 0.015 m
 - B. 1.5 m
 - C. 150 mm
 - D. 1500 km
-

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Use the chart below to answer question 4.

Time in Minutes	Temperature (°C)
0	20°
10	10°
20	0°
30	0°
40	0°
50	0°
60	0°
70	0°
80	-10°
90	-20°
100	-23°

4. During which time interval is the water changing from a liquid to a solid?
- A. between 10 and 20 minutes
 - B. between 20 and 70 minutes
 - C. between 70 and 80 minutes
 - D. between 80 and 100 minutes
-

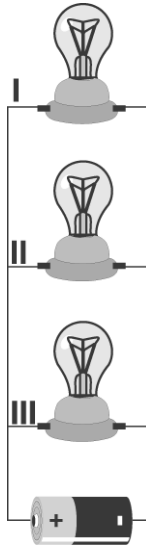
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Use the picture below to answer question 5.



5. Three identical light bulbs are connected in parallel with a battery, as shown above, and all are lit. If bulb I is unscrewed and removed, what will happen to the other two light bulbs?
- A. Both will stay lit.
 - B. II will go out, but III will stay lit.
 - C. II will stay lit, but III will go out.
 - D. Both will go out.
-

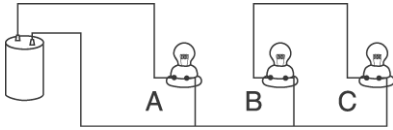
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Use the diagram below to answer question 6.



6. This electric circuit has a dry cell with three lightbulbs connected to it. Which of the lightbulbs would light?

- A. only lightbulb A
 - B. only lightbulbs A and B
 - C. only lightbulbs B and C
 - D. all of the lightbulbs
-

Use the table below to answer question 7.

Property	Substance W	Substance X	Substance Y	Substance Z
State	solid	solid	solid	liquid
Attracted to Magnet?	yes	no	no	yes
Dissolves in Water?	yes	no	yes	no
Color	white	white	white	silver

7. Which substance shown in the table could be sugar?

- A. Substance W
 - B. Substance X
 - C. Substance Y
 - D. Substance Z
-

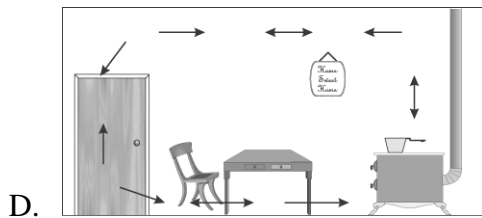
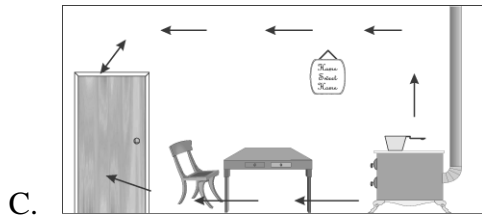
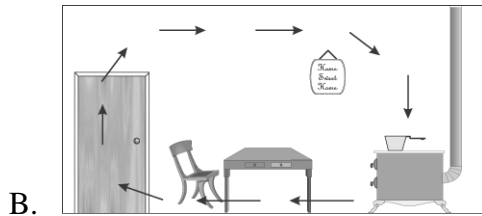
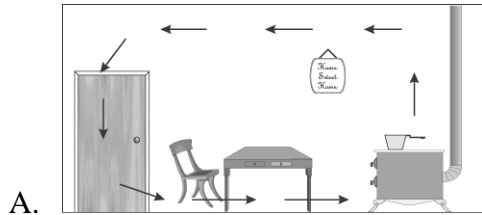
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8. The pictures below show a woodstove in a small room. The arrows illustrate the flow of air when the stove is lit. In which picture are the arrows drawn correctly?



9. What metric unit is used to measure length?

- A. meter
 - B. gram
 - C. liter
 - D. foot
-

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10. Oxygen naturally occurs in which physical state?

- A. solid
 - B. liquid
 - C. gas
 - D. plasma
-

11. The Moon has about one-sixth the mass of Earth. If a spaceship were sent from Earth to the Moon's surface, the mass of the spaceship would

- A. become six times greater.
 - B. be five-sixths what it was on Earth.
 - C. be exactly the same as on Earth.
 - D. be one-sixth of its original mass.
-

12. A simple sugar has six carbon atoms, twelve hydrogen atoms, and six oxygen atoms. Which represents sugar's chemical formula?

- A. $C_6H_{12}O_6$
 - B. $6(C_1H_2O_1)$
 - C. 6C, 12H, 6O
 - D. C=6, H=12, O=6
-

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13. Ellen heated water and measured its temperature. She then set the pan of water on the table to cool. As the water cooled, she measured its temperature every minute and recorded her findings in the table below. Ellen forgot to measure the temperature at minute 6. Which was **most likely** the temperature at minute 6?

Minute	Temperature
0	90°C
1	87°C
2	84°C
3	82°C
4	80°C
5	78°C
6	
7	74°C
8	72°C

- A. 78°C
 - B. 76°C
 - C. 75°C
 - D. 74°C
-

14. How many centimeters are there in 1 kilometer?

- A. 100
 - B. 1,000
 - C. 100,000
 - D. 1,000,000
-

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15. Archimedes' principle is a scientific explanation for

- A. the principles of flight.
 - B. the principles of buoyancy.
 - C. the conservation of matter.
 - D. the principles of motion.
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