

## CISD Grade 6 Science Unit 01 & 02

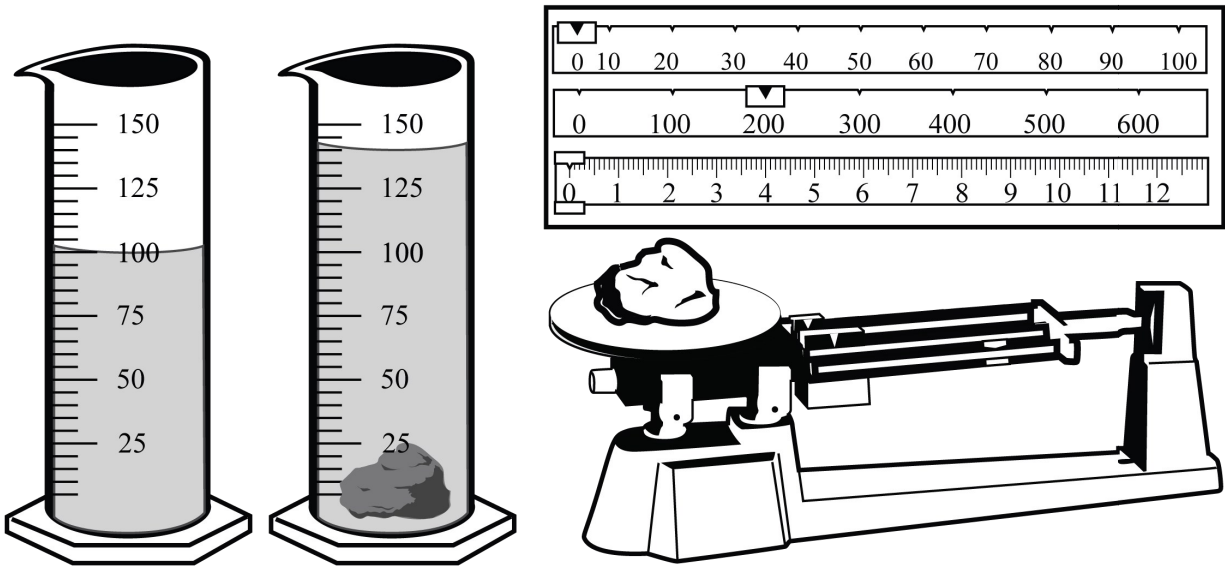
Some questions (c) 2012 by CSCOPE.

- 1** Samantha is examining an object in science class. It is solid, does not conduct, malleable, and is a shiny silver color. The sample is MOST likely a —
- A** non-metal
  - B** metalloid
  - C** metal
  - D** semi-conductor
- 2** Roger is examining an object in science class. It is a pale yellow, brittle solid, with no shine. The sample is MOST likely a —
- F** non-metal
  - G** metalloid
  - H** metal
  - J** semi-conductor

3 Gloria needs to find the density of a cube. Each side of the cube measures 3 cm and the mass of the cube is 12 g. What is the approximate density of the cube?

- A  $0.4 \text{ g/cm}^3$
- B  $1.3 \text{ g/cm}^3$
- C  $4.0 \text{ g/cm}^3$
- D  $36 \text{ g/cm}^3$





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What is the density of the rock sample shown in the illustration?

- F  $4.0 \text{ g/cm}^3$
- G  $4.5 \text{ g/cm}^3$
- H  $5.0 \text{ g/cm}^3$
- J  $5.5 \text{ g/cm}^3$

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Mohs Hardness Scale									
1	2	3	4	5	6	7	8	9	10
Talc	Gypsum	Calcite	Fluorite	Apatite	Orthoclase	Quartz	Topaz	Corundum	Diamond
									
	fingernail	penny			glass	knife			

Lisa found a pretty rock while hiking with her family. She discovered that the rock will scratch glass, but not her steel knife. According to Mohs Hardness Scale, what does Lisa know about the rock?

- A** It is harder than orthoclase, but softer than topaz.
  - B** It is harder than corundum, but softer than gypsum.
  - C** It is harder than calcite, but softer than fluorite.
  - D** It is harder than fluorite, but softer than quartz.
- 6 Anthony is testing several minerals in science class. First, he scratched the minerals across a tile, and then he scratched the minerals with a copper penny and a steel tool. What physical properties is Anthony testing for?
- F** color and state
  - G** streak and hardness
  - H** luster and conductivity
  - J** pH and fracture

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<b>Density of Common Metals</b>	
Type of Metal	Density (g/cm <sup>3</sup> )
Aluminum	2.70
Brass	8.40
Copper	8.90
Gold	19.30
Iron	7.80
Lead	11.30
Nickel	8.80
Steel	7.90

Mary decided to find the density of her metal house key to try and identify what the key was made from. She found the volume of the key to be 5 ml and the mass to be 39.5 g. Using the chart above, what type of metal is the key made from?

- A** aluminum
- B** steel
- C** copper
- D** gold



- 11** Lisa and Jill have just finished an experiment in science class that involved several different chemicals. Which of the following is the BEST way for them to clean up their lab area?
- A** Ask the teacher to tell them the best way to dispose of the chemicals.
  - B** Mix all of the chemicals together before pouring them down the sink.
  - C** Throw all of the leftover materials into the trash can.
  - D** Leave all of the leftover materials on the lab table.

- 12** Keanan wants to find out if a physical change will occur when he shakes a rock inside of a coffee can for 30 seconds.

Which of the following sets of lab equipment would allow him to BEST complete his experiment?

- F** timer, triple beam balance
- G** ruler, timer
- H** ruler, graduated cylinder
- J** timer, thermometer



<b>Title</b>
luster
ductility
conductivity
X

**13** What would be the BEST title for the list?

- A** Chemical Properties
- B** Reactive Properties
- C** Physical Properties
- D** Observable Properties

**14** What word or set of words BEST replaces X in the table?

- F** state of matter
- G** malleability
- H** hardness
- J** oxidation