CISD Grade 6 Science Unit 03

GO ON

1 Which of the following is the symbol for chlorine?

A Cl

B Ch

C C

D Ce

2 The chemical symbol for nitrogen is —

F Na

G N

H Ni

J Ne

3 The chemical symbol Ca represents —

A chlorine

B calcium

C cesium

D carbon

4 Which of the following is not an element?

F water

G helium

H nitrogen

J sodium

GO ON

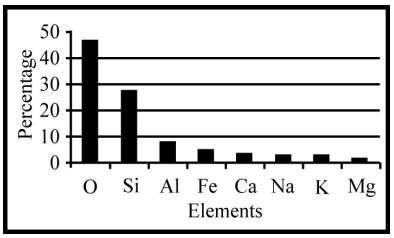
Use the following data table to answer the next two questions.

Abundance of Elements in the Earth's Crust

Element	Percentage
Oxygen	47
Silicon	28
Aluminum	8
Iron	5
Calcium	4
Sodium	3
Potassium	3
Magnesium	2

5 Which graph below BEST represents the most abundant elements in the Earth's crust ?

A



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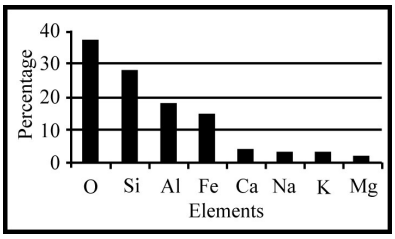

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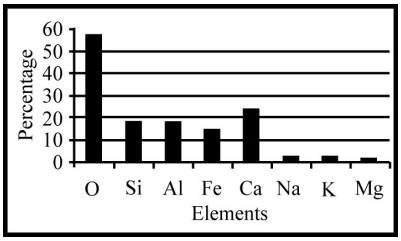

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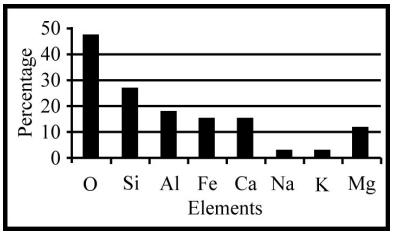


6 What percent do Ca and Na make up of the Earth's crust?

F 2

G 5

H 7

J 28

GO ON

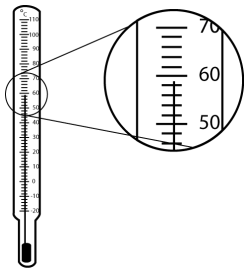
Use the following data table to answer the next two questions.

Melting and Boiling Points of Selected Elements

Element	Melting Point(°C)	Boiling Point (°C)
Chlorine	-101.0	-34
Bromine	-7.0	58.9
Iodine	113.5	184
Astatine	302	337

7 Which thermometer shows the boiling point of bromine?

A



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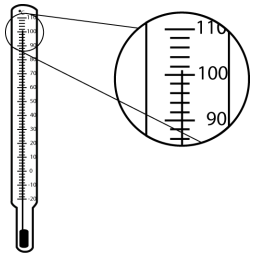

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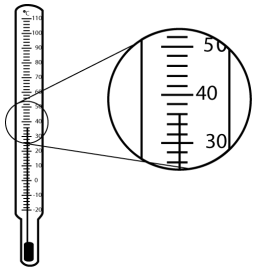

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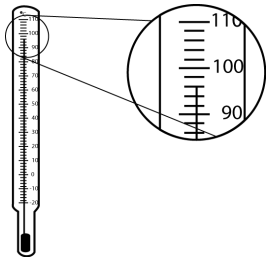


8 What is a valid conclusion based on the Melting and Boiling Point table?

F The boiling points increase in a predictable pattern.

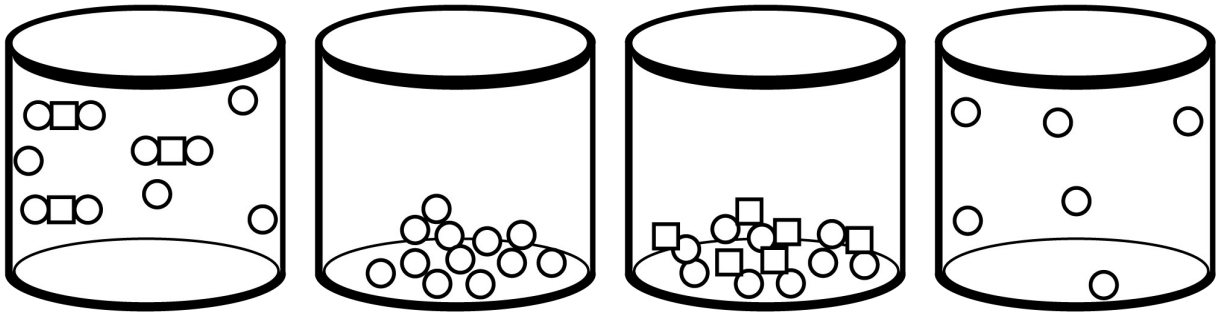
G The melting points increase as you move down the table.

H The melting points decrease as you move down the table.

J There are no patterns of data in the table.

GO ON

Use the following microscopic view of the particles to answer the next two questions.



9 Which of these models BEST represents the element neon as a gas?

A Model A

B Model B

C Model C

D Model D

10 What is an advantage of using models like the ones above to study elements?

F The particles move too slowly to be seen easily.

G The particles are too dangerous.

H The particles are too small to observe.

J The particles cannot be placed in containers.

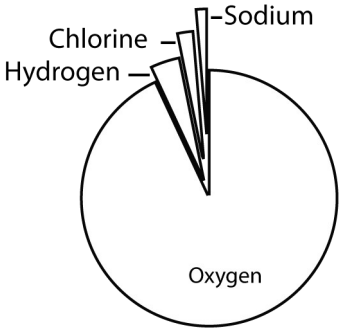
GO ON

11 **Most Abundant Elements in the Ocean by Mass**

Element	Percent
Oxygen	86
Hydrogen	11
Chlorine	1.9
Sodium	1.1

Which pie chart MOST accurately reflects the information in the table?

A



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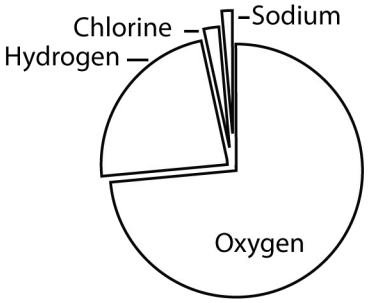

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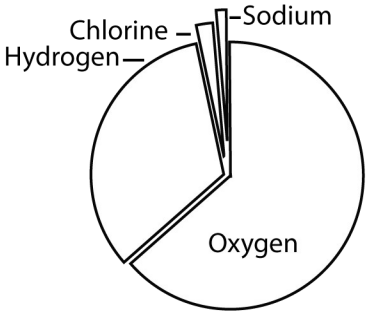

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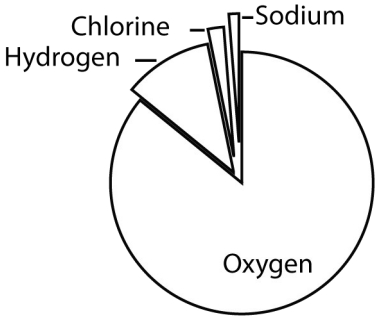

12 During a laboratory experiment, your lab group runs out of a mystery element you are testing. Your teacher is helping another lab group, but you notice that the supply room door is open. What should you do?

F Sneak into the supply room and get some more of the chemical. Do not tell the teacher because you were not doing anything wrong, and there was not a reason to worry them.

G Walk into the supply room and get some more of the chemical. Then tell the teacher what you have done when he is finished helping the other group.

H Borrow another lab group's mystery substance. Then tell the teacher what you have done when he is finished helping the other group.

J Raise your hand, and wait for the teacher to help you.

GO ON

13 Explain the statement, "All matter is made from elements, and elements are pure substances."

BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON YOUR ANSWER DOCUMENT

STOP