

Facts about the Earth

There are many interesting facts about the Earth. One is that it is the third planet from the Sun in our Solar System. Other facts about our planet are: it has an abundance of liquid water, it is the only planet in our Solar System to have life and it has a rocky composition. You may remember that the earth has a number of layers and the top layer is called the crust. There are many elements that make up the Earth's crust but there are eight that are the most abundant.

Of course all of the elements that make up the Earth's crust are found on the Periodic Table of Elements. The earth's crust is made mostly of Oxygen – 46% and Silicon – 28%. It also has 8% Aluminum, 6% Iron and 4% Magnesium. There is a little Calcium – 2.5% and Potassium – 2.3%. About 3.2% of the Earth's crust is made up of small amounts of all the other elements.

Materials: Colored pencils

What To Do:

1. Find each of the following elements on the Periodic Table on the next page and color them the listed color.

- Oxygen – yellow
- Silicon – orange
- Aluminum – purple
- Iron – red
- Magnesium- blue
- Calcium – green
- Potassium - pink

Questions:

1. How many of these elements are metals? _____
2. How many of these elements are metalloids? _____
3. How many of these elements are nonmetals? _____

Periodic Table of Elements

Atomic number _____ 14 _____ Name _____																	
Symbol _____ Si _____																	
Atomic mass _____ 28.086 _____																	
Silicon																	
14																	
8A																	
2																	
He 4.003 Helium																	
10																	
Ne 20.180 Neon																	
18																	
Ar 39.948 Argon																	
36																	
Kr 83.798 Krypton																	
54																	
Xe 131.294 Xenon																	
86																	
Rn (222) Radon																	
17																	
F 18.998 Fluorine																	
9																	
Cl 35.453 Chlorine																	
35																	
Br 79.904 Bromine																	
83																	
I 126.904 Iodine																	
126.904																	
At (210) Astatine																	
85																	
Po (209) Polonium																	
84																	
Pb 207.2 Lead																	
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Bi (208) Bismuth																	
208.980																	
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Materials: Periodic Table, colored pencils

What To Do:

1. Fill in the data table below with the elements and their percentages that were given in the paragraph on the first page.
2. Use the Periodic Table to find each element's symbol.
3. Make a bar graph of the elements found in the Earth's Crust.

Element	Symbol	Percent

Questions:

1. Which three elements are the most abundant in the earth's crust? _____
2. Which element is the least abundant in the earth's crust? _____
3. What are the rules for writing the symbols for elements?



Name _____ period _____

EXIT TICKET

Facts about the Earth

1. What does the word abundant mean?
 - A. not having enough of something
 - B. having a great deal of something
 - C. having too much of something
2. Which of the following is NOT an abundant element found in the Earth's crust?
 - A. Silicon
 - B. Oxygen
 - C. Helium
3. Which of the following symbols for Oxygen is written correctly?
 - A. o
 - B. O
 - C. OX
4. Which of the following symbols for Silicon is written correctly?
 - A. si
 - B. sI
 - C. Si



Name _____ period _____

EXIT TICKET

Facts about the Earth

1. Which of the following symbols for Oxygen is written correctly?
 - A. o
 - B. O
 - C. OX
2. Which of the following symbols for Silicon is written correctly?
 - A. si
 - B. sI
 - C. Si
3. What does the word abundant mean?
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