

Name _____ Period _____

Study Island Lesson: The Periodic Table

Directions: Log on to www.studyisland.com. Under OH Programs, click 7th Grade. Select Science (New Learning Standards). Scroll down to Physical Science. Click on the word lesson for Matter: Properties & Changes.

Page 1 Questions:

The periodic table is _____.

There are _____ known elements. The periodic table is so named because it is organized into _____ . A **period** is _____

Both the _____ and the _____ of the elements _____ moving across the table from left to right and down the table from top to bottom.

The division of elements into vertical _____ by column creates _____ of elements. Elements in the same group all have _____.

Write two facts about each group of elements:

Group	Fact 1	Fact 2
Group 1: Alkali metals		
Group 2: Alkaline earth metals		
Group 17: Halogens		
Group 18: Noble gases		
Groups 3-12: Transition metals		

State a difference between a metal and a metalloid: _____

State a difference between a nonmetal and a metalloid: _____

Name _____ Period _____

Page 2 Questions:

_____ is anything that has mass and takes up space. It can exist in any phase (_____, _____, or _____).

A pure substance is made up of only _____.

How can an element and a compound both be classified as a pure substance?

What is a mixture?

How is a homogeneous mixture different from a heterogeneous mixture?

List an example of a homogeneous mixture: _____

List an example of a heterogeneous mixture: _____

If there is time.... Go back to page one and watch the video on Mendeleev. Explain how he was able to arrange the elements:
