

Date:

# Exploring The Modern Periodic Table

Name:

Answer in the spaces below.

1. a) Elements that are **gases** at room temperature are:

b) Elements that are **liquids** at room temperature are: \_\_\_\_\_ & \_\_\_\_\_

2. c) Which side of the periodic table do you find elements that are metals? \_\_\_\_\_

d) On which side of the periodic table do you find elements that are non-metals? \_\_\_\_\_

e) Are **most** the elements metals or non-metals? \_\_\_\_\_

f) What are the elements called that have a purple background?

g) Why are they called that?

3. **Name** the following elements:

H \_\_\_\_\_ Al \_\_\_\_\_ Fe \_\_\_\_\_

Kr \_\_\_\_\_ Xe \_\_\_\_\_ Eu \_\_\_\_\_

4. Write the **chemical symbols** for the following elements:

Helium \_\_\_\_\_ Iodine \_\_\_\_\_ Lead \_\_\_\_\_ Uranium \_\_\_\_\_

Einsteinium \_\_\_\_\_ Plutonium \_\_\_\_\_

5. Write the **atomic numbers** for the following elements:

Lr \_\_\_\_\_ Cs \_\_\_\_\_ Pt \_\_\_\_\_ Ag \_\_\_\_\_ He \_\_\_\_\_ Si \_\_\_\_\_

6. Write the **atomic mass** for the following elements:

sodium \_\_\_\_\_ zinc \_\_\_\_\_ chlorine \_\_\_\_\_ lithium \_\_\_\_\_

7. Look at the densities and melting points of the elements.

h) Which element has the highest melting temperature? \_\_\_\_\_ What is this temperature? \_\_\_\_\_

i) Which element has the lowest melting temperature? \_\_\_\_\_ What is this temperature? \_\_\_\_\_

j) Which element has the greatest density? \_\_\_\_\_ What is it? \_\_\_\_\_

k) Which element has the lowest density? \_\_\_\_\_ What is it? \_\_\_\_\_