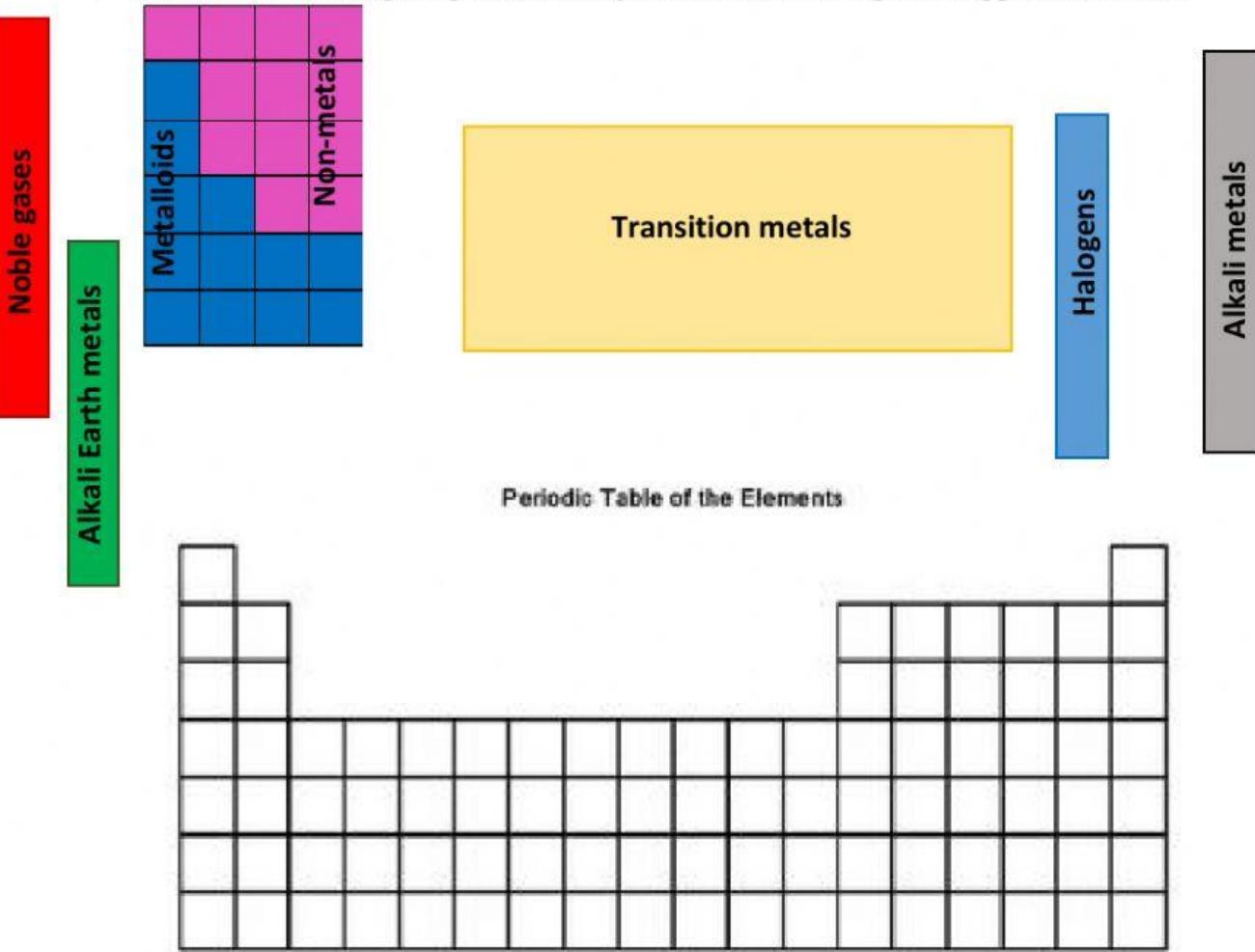


Lithium, the first alkali metal in the periodic table, is a soft dull solid. It is a good conductor of electricity and is shiny when cut. Lithium reacts with many substances. It burns in oxygen to form lithium oxide. It also reacts with water to form hydrogen and lithium hydroxide, which is an alkali. Use your knowledge of the alkali metals to complete these sentences about them.

- a In the periodic table the alkali metals are found in group \_\_\_\_\_.
- b The alkali metals are all stored \_\_\_\_\_ to keep out air and water.
- c When sodium burns: sodium + \_\_\_\_\_  $\rightarrow$  \_\_\_\_\_
- d When potassium is added to water the gas formed is \_\_\_\_\_.
- e They are called alkali metals because they form an alkali when \_\_\_\_\_

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- Label the following diagram of the periodic table using the suggested words:



- Drag and drop the following boxes to organise equations for the products below:

			
			
			
copper		sodium	oxygen
carbon		magnesium	sodium
oxygen		sulfur	phosphorus
copper		phosphorus	oxygen
magnesium		carbon	oxygen
oxygen		oxygen	sulfur
oxide		oxide	oxide
oxide		dioxide	dioxide

**1) Magnesium oxide:**

**2) Phosphorus oxide:**

**3) Carbon dioxide:**

**4) Sulfur dioxide:**

**5) Copper oxide:**

**6) Sodium oxide:**

- Organise the oxides into the table below:

Magnesium oxide

Sodium oxide

Phosphorus oxide

Carbon dioxide

Sulfur dioxide

Copper oxide

Metal oxides	Non-metal oxides

Complete the following word equations using the words in the box below.

carbon    hydrogen    lithium    oxygen    sodium    sodium oxide    water

