

TASKS:

1. Read the text “IA Metals: Alkali metals” and indicate whether the statements are true (T) or false (F).
 - a. The alkaline earth metals have similar properties as the alkali metals.
 - b. The alkali metals are reactive only at high temperature.
 - c. The alkali metals are of various colours.
 - d. The most reactive alkali metals are at the top of the group.
 - e. All alkali metals react slowly with water.
 - f. The alkali metals can form halides.

2. Read the text again and answer the following questions:

What are physical properties of alkali metals?

Which alkali metal reacts with nitrogen?

How are alkali metals identified?

3. Underline the correct word:

Lithium, sodium and potassium are very **easy** / **difficult** to cut with a scalpel. **Lithium** / **potassium** sets on fire easily when it reacts with water. When these metals react with water, they produce a gas called **oxygen** / **hydrogen** / **carbon dioxide**.

4. Complete the table (refer to the periodic table).

Element	Symbol	Protons number	Neutrons number	Electrons number
Lithium				
				11
Potassium				
		37		
	Cs			

5. Complete the reactions:

- $\text{K} + \text{H}_2\text{O} \rightarrow$
- $\text{Rb} + \text{O}_2 \rightarrow$
- $\text{Cs} + \text{F}_2 \rightarrow$
- $\text{Na} + \text{I}_2 \rightarrow$
- $\text{Li} + \text{N}_2 \rightarrow$

6. Beryllium melts at 1278°C and calcium melts at 839°C. What can you say about the change in melting points of the group IA elements compared to the two mentioned above?