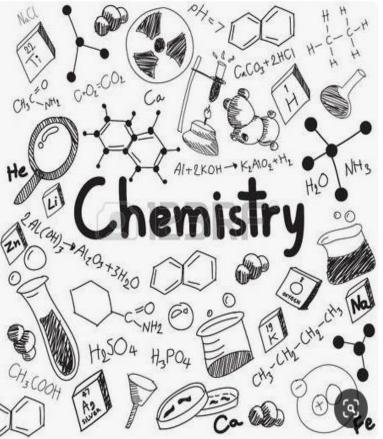




- Lesson : (Reactivity of metals 2)
- Scholastic Year: 2023-2024
- Grade: 7CS



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## Objective:

1. To describe reactions of metals with water and oxygen (Groups 1&2)

### NOTE: LINKS FOR THE REACTIONS ARE ATTACHED TO HELP YOU IN YOUR STUDYING.YOU DON'T NEED TO MEMORIZE THEM.



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#### Understanding reactivity with oxygen https://www.youtube.com/watch?v=RA3rQ2JXtLI&list=PPSV

Metal	Symbol	Appearance	Observation
Magnesium	Mg	Grey colour	Strong reaction, a white flash appeared after burning it.
			It changed into a white powder which is magnesium oxide.
Copper	Cu	Red- brown	A thin layer of grey color formed on the surface (copper oxide)
		colour	An orange flame appeared during the test.
ron	Fe	Grey colour	White flash appeared during the test.
			The colour of iron wool changed into black forming iron oxide.
Zinc	Zn	Shiny silver colour	Orange flame is formed
			After burning, some of the zinc changed into white powder which is zinc oxide (size of the sample had changed)



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#### Understanding reactivity with water/ steam

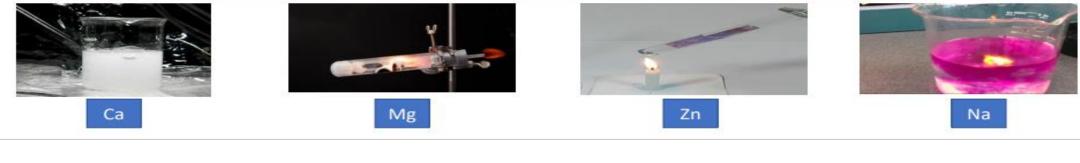
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Metal	Observations in water
Calcium https://www.youtube.com/watch?v=QDKkdhXGv5c	calcium metal begins to bubble vigorously as it reacts with water, producing hydrogen gas, and calcium hydroxide.Rise in temperature (exothermic reaction)
Magnesium https://www.youtube.com/watch?v=1oscKlyi_pY	Magnesium reacts slowly with cold water forming small bubbles on the surface of the ribbon.   Reaction of Magnesium and Water - YouTube   Many bubbles are formed when heated.
Zinc (aluminium/ iron) https://www.youtube.com/watch?v=dBGx2PFhoGw	Slow reaction with cold water (The color of indicator changes slowly) then the reaction gets faster with hot water, but less bubbles are produced comparing to magnesium What happens when zinc reacts with hot water - YouTube
Sodium https://www.youtube.com/watch?v=jIJY7pqOM	Vigorous reaction with cold water, rapid change in color of the indicator, fizzing on the surface, hydrogen gas given out, exothermic reaction Alkali Metals Reacting with Water - Y



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# Thank you