



## Provincial Department of Education - Sabaragamuwa – Week School

Subject – Science

Week – 8<sup>th</sup> Week- 13<sup>th</sup> -19<sup>th</sup> Dec, 2020

Grade - 10

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### Rate of the Reaction

01) Given below are some of reactions around us.

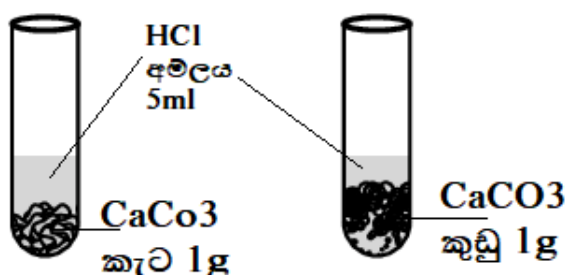
- Ripening of fruits
- Burning a paper
- Dissolving salt in water
- Blast of a cracker
- Rusting of iron nail
- Breaking a rock
- Turning water into ice

i) Select the chemical reactions from the above.

ii) Name 2 fast chemical reactions from the above.

02) What are the 4 factors that affect the rate of the reaction?

03) Following is the apparatus related to a chemical reaction.



i) It was taken 8 minutes to complete the reaction of  $\text{CaCO}_3$  crystals and 2 minutes to complete the reaction of  $\text{CaCO}_3$  powder. Calculate the rate of the reactions separately.

ii) What is the conclusion of the reaction?

04) Pay your attention to the activity on page number 120 in your textbook.

i) If the time to disappear the purple colour of the  $\text{KMnO}_4$  solutions is measured, which  $\text{KMnO}_4$  solution will get less time to disappear the purple colour?

ii) What is the reason for the above observation?