

St. Andrews Scots Sr. Sec. School

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Session: 2026 – 27

(Worksheet-5)

Class: VII

Subject: Science

Chapter: Changes around Us: Physical and Chemical

Q1. Define these terms:

- a) Ignition temperature
- b) Erosion
- c) Fuel
- d) Combustion

Q2. Fill in the blanks:

- a) Burning of wax vapour into flame is a _____.
- b) Burning needs fuel, _____ and _____.
- c) Mixing of vinegar and baking soda releases _____ gas.
- d) Souring of milk is a _____ change.
- e) Fireflies produce light through a _____ change inside their bodies.

Q3. Answer the following in one word:

- a) Which gas is necessary for combustion?
- b) Which type of change takes place in digestion of food?
- c) Name a rock which contains iron.
- d) Which new substance is formed by rusting?
- e) Which natural phenomenon is seen in some living organisms producing lights?

Q4. Complete the following reaction:

- a) $2\text{Mg} + \text{O}_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$
- b) $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$
- c) $\text{CaO} + \text{H}_2\text{O} \rightarrow \underline{\hspace{1cm}}$
- d) $\text{Fe} + \text{O}_2 + \text{H}_2\text{O} \rightarrow \underline{\hspace{1cm}}$

Q5. Answer the following question:

- a) Differentiate between desirable and undesirable changes with example.
- b) Explain why burning of paper is a chemical change.
- c) Why is dissolving sugar in water considered a physical change?
- d) “Every irreversible change is a chemical change.” Do you agree? Justify your answer with one example.