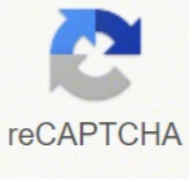
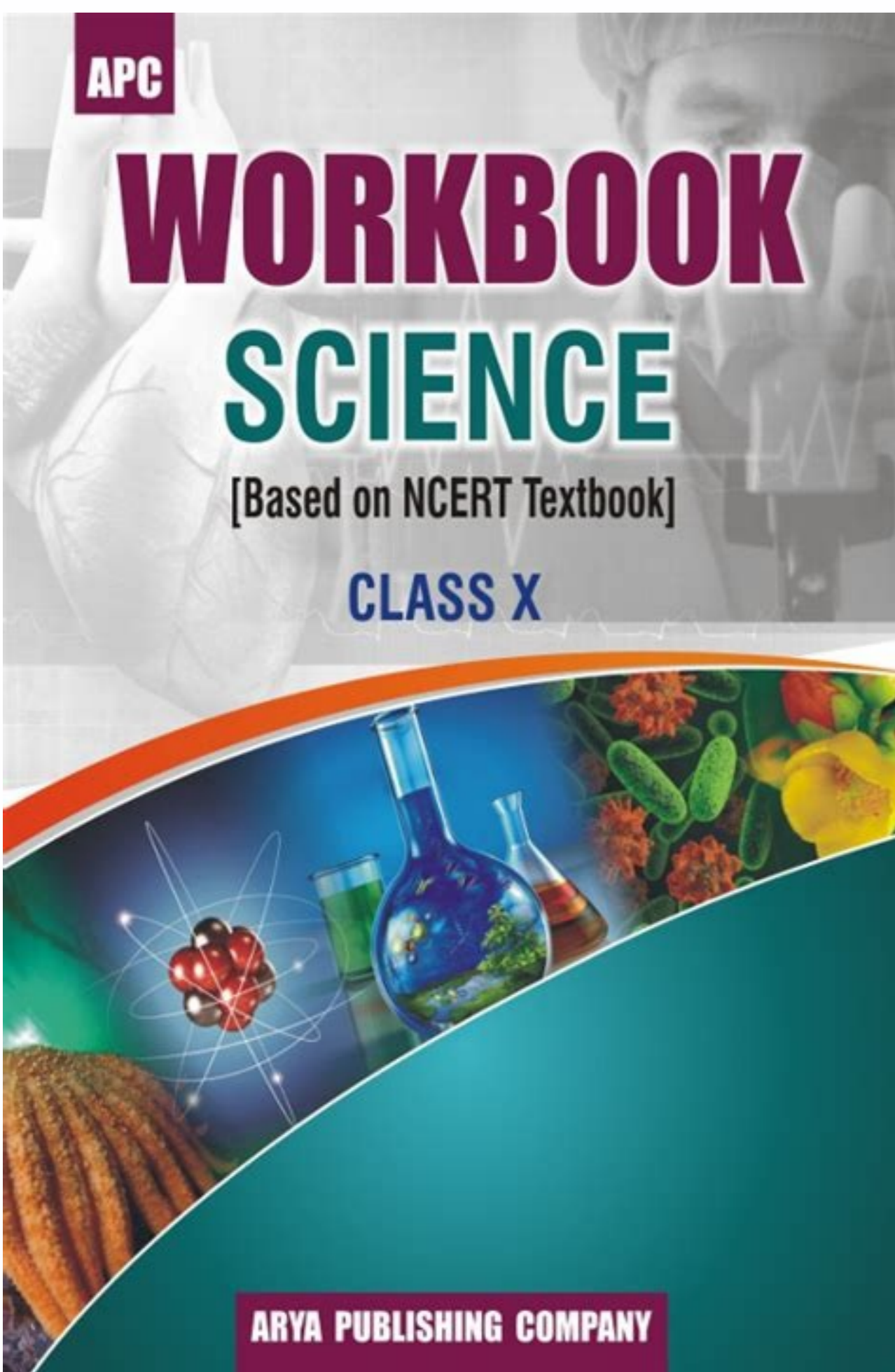




I'm not robot



Next



5 **Worked example**

Fire is both useful and dangerous. What is fire? How did we discover it? How do we control it?

Fire: Friend and Foe

Early man didn't know what fire was, but he must have seen the damage it could cause. He must have watched lightning and volcanoes long before he began to use fire himself. Fire was powerful and dangerous, and he was frightened.

Fire may have puzzled early man but we now know that fire is the result of a chemical reaction. When the oxygen in the air combines with carbon and hydrogen in a fuel, a chemical reaction takes place. Energy in the form of heat and light is released in this process. This is what we call fire.

Three things are needed to make fire – fuel, oxygen and heat. Wood, cooking gas and petrol are some examples of fuel. Oxygen comes from the air. That is why, when you blow on smouldering paper, it often bursts into flame. The third thing needed to make fire is heat. Fuel and oxygen do not make fire by themselves, or else a newspaper or a stick lying in the open would catch fire on its own. To burn a piece of paper or wood,

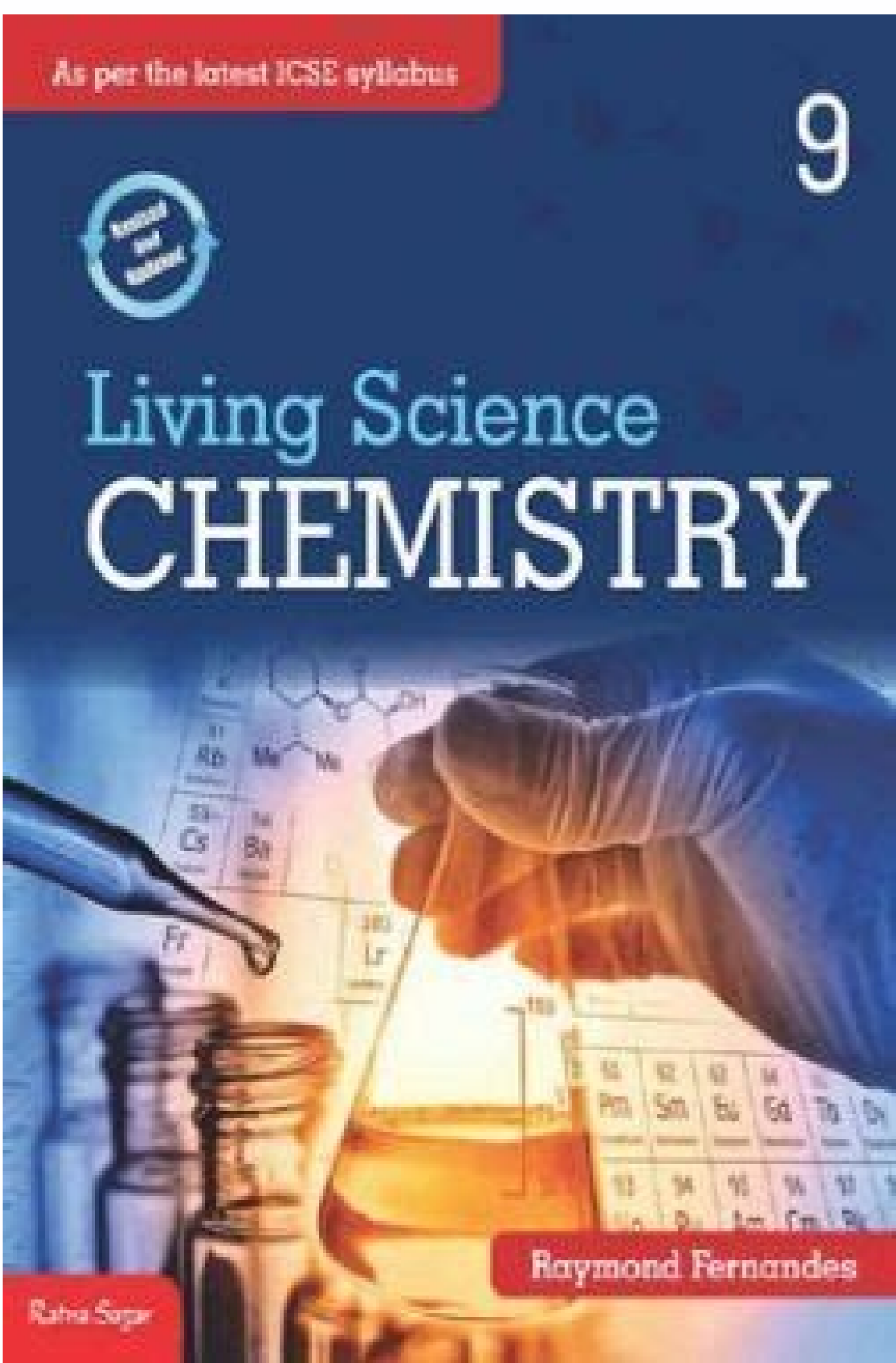
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3.3 Biomass Production

Biomass is the organic material that is produced by plants and animals. It is a source of energy and can be used to produce biofuels. Biomass production is a sustainable process that can help reduce greenhouse gas emissions.

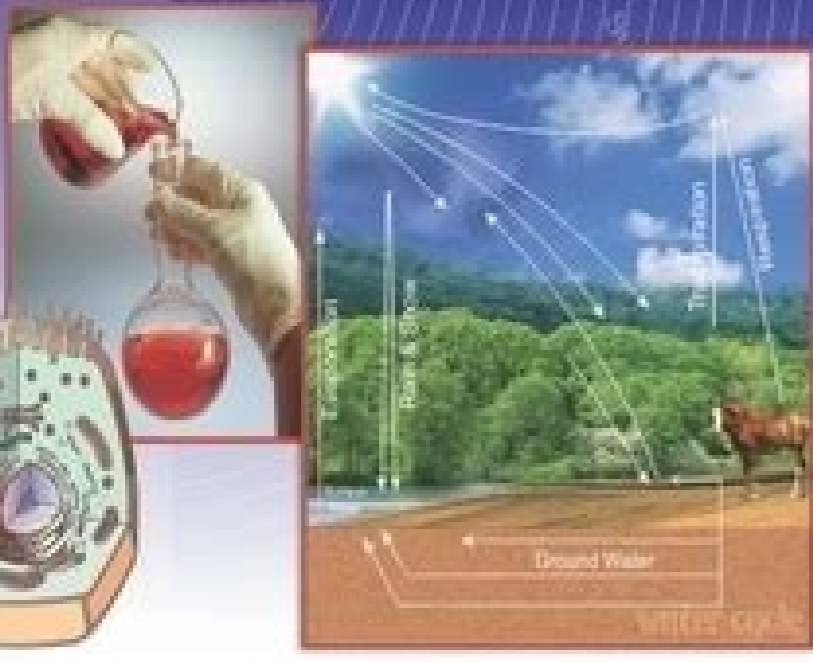
3.4 Photosynthesis: Biomass and Energy

Plants use photosynthesis to produce biomass and energy. This process involves the conversion of light energy into chemical energy stored in the form of glucose. The chemical equation for photosynthesis is:

$$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light energy}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$


SCIENCE

Textbook for Class IX



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