

## **DAY 5**

### **TOPIC: CARBON AND FUELS.**

#### **Carbon and living things**

Aims :

- Use the term organic properly
- Explain what happens when an organic compound is heated.

#### **Activity 1:**

Watch videos V.6. “super sugar science. and V.7 “burning sugar” and fill in the gaps below, with the correct words to describe what is happening in the videos.

#### **Question**

1. When the sugar is heated, it will \_\_\_\_\_ evaporating off the \_\_\_\_\_ vapour, leaving a black substance which is carbon.

#### **Activity 2:**

Read the notes below, then in your exercise books, answer the questions that follow.

#### **Notes**

All living things contain carbon. Carbon Dioxide (containing carbon and Oxygen) is taken in by all plants during photosynthesis. The oxygen is released back into the air and but the carbon is built into a variety of complex molecules. Animals obtain their food by eating plants, or by eating other animals which have eaten plants. Thus all animals obtain the carbon which was originally taken in by the plants. Carbon compounds are the basis of all life. The Carbon is combined with oxygen and hydrogen mostly but also with small amounts of other elements. The word **organic** refers to materials obtained from living things, When organic materials are heated, away from air, they give off various gases , including water vapor and leave behind a residue which is mostly made of carbon. Sometimes a little of the carbon is given off as Carbon Dioxide.

#### **Questions**

1. Which element do all living things contain?
2. Explain how plants obtain this carbon
3. How does this carbon get into animals?
4. What does the word organic mean?
5. 5. Explain what happened when organic materials are heated.