**SAINIK SCHOOL GOPALGANJ**

**SUMMER VACATION PROJECT/ APPLICATION BASED ASSIGNMENT**

**CLASS VIII SUB: SCIENCE**

**Learning outcomes**

1. Know and understand the terms polymers, polymerization, thermoplastic and thermosetting plastic
2. Compare thermoplastic and thermosetting plastic
3. Understand the advantages and disadvantages of synthetic fibre and plastics
4. To critically analyse that conservation of forest is linked to sustaining life on earth
5. Critically analyse that why we should reduce the use of plastics.

**1. ACTIVITY NO:1**

**a**. To show that manufacturing of synthetic fibres is helping to conserve forest reserve

**b.** To observe the thermoplastic and thermosetting plastic

**c.** Try burning a synthetic fibre and note down changes in it colour, smell, texture and gases formed during this chemical change.

Manufacturing synthetic fibres is actually helping conservation of forests because they are man-made fibres. These are made from petrochemicals. In the manufacturing of synthetic fibres we use no material from natural sources thus in turn we conserve forests which may otherwise been destroyed When we use articles made of plastics we also save thousands of tress which otherwise have to be cut if we used articles made of wood or natural fibres.

**Complete a project covering the following aspects on synthetic fibres and plastics:**

1. List the different items from your daily uses that are thermoplastic and thermosetting plastic.
2. Burn a synthetic fibre and note down changes in it colour, smell, texture and gases formed during this chemical change.
3. Write an essay about ‘Conservation of forest and its importance’ and ‘Plastics are harmful-Reduce use of plastics’

**2. ACTIVITY NO:2**

a) Collect the labels from the bottles of pickles, jams, jellies and other packed food items. Write down the list of contents printed on the labels.( ingredients, calorific value and preservatives)

b) Do some research and find out more about the SARS virus.

Are there any similarities between SARS and Covid-19 virus? Which one of these two

is more dangerous for humans? Does Covid-19 have more varieties/strains? Explain the unique properties of virus. Write your experiences about of Covid-19