

CLASS: VIII

SUBJECT: SCIENCE

CHAPTER: 4. MATERIALS: METALS AND NON-METALS

SUBTOPIC: DUCTILITY, MALLEABILITY AND HARDNESS

EXPERIENTIAL LEARNING

ACTIVITY:

Aim: To enable the students to understand the physical properties of metals and non-metals.

Materials Required: Aluminium foil, copper wire, metallic (mosquito) mesh, zinc granules, iodine crystals etc.

Procedure:

- Students will be divided into three groups.
- Each group will be instructed to bring aluminium foil or sheets, copper wire, a piece of aluminium (mosquito) mesh, respectively.
- Teacher will bring zinc granules and iodine crystals and hammer the zinc granules making the students to observe the effect.
- Iodine crystals will be beaten up using a duster and the effect will be observed by the students.
- Students will be asked to compare the effects of both the activities.
- The students will compare the hammered zinc granules with the items they have brought.
- The teacher will ask the following questions:

CURIOSITY QUESTION:

Have you ever wondered about the shapes of some metals like copper and silver used in the making of utensils, jewellerys and electrical appliances?

ANSWER GUIDE:

- Name the material which turned into thin sheet after hammering. Which group has brought similar type of material?
- How can the same aluminium be drawn into wires in the case of mosquito mesh?
- Have you ever thought about the processes behind them?
- If these metals are made into sheets and wires, why can't the iodine granules be made into sheets and wires?