

EXPERIENTIAL LEARNING

CLASS: IX

SUBJECT: BIOLOGY

CHAPTER: 7. DIVERSITY IN LIVING ORGANISMS CLASSIFICATION – INTRODUCTION

METHODOLOGY OF ACTIVITY: HANDS-ON

- The teacher will give buttons of various colour, shape, size and different number of holes to the students and ask them to group or organize these in different boxes.
- Students will be asked to prepare a list of people they know and group them into friends, family, relatives, teachers, other adults, etc.
- Classification is the placing of similar things into groups based on their characteristics or on specific criteria.

QUESTION:

1. In angiosperm, seeds are developed inside a fruit. The seeds may have a single or double cotyledon which becomes green on germination.

- (i) What will happen if the cotyledon is not green?
- (ii) How are the plants classified on the basis of number of seed leaves?
- (iii) Seeds of pine tree are found to be naked. What do you call such a tree?
- (iv) Can you identify a monocot or dicot from their leaves?
- (v) What will happen if pollination does not take place in angiosperm?

ANSWER GUIDE:

THINK ABOUT:

- Associate the vascular tissue with the group in which they first appear?
- Which division has the simplest plants?
- To which division does Pinus and Cycas belong?
- With the venation pattern of a leaf, can you identify the type of root in a plant?