



Information Processing

Lesson Plan: Class 02 / IP / 01



Overall goal of the lesson	Introduction to the topic of “Information Processing” by classifying objects based on attributes
Prior knowledge required	Basic concepts about shapes, sizes, and colour in a visual sense

MODULE 1: **Module time:** 35 minutes

Goal:	Emphasize how attributes of an object can be used for classification and introduce to tabulation based on the same
Description:	Walk through given objects and observe their shape, size, colour or utility and decide where they belong
Material required:	Physical: Worksheets (pdf provided for easy use/printing, preferably colour printed), regular writing and color pencils/crayons, scratch paper Electronic: : PPT – Information Processing: 02-IP-01 (accompanied with this LP)
Procedure Details:	<ul style="list-style-type: none">• We begin with a display of a simple collection of 4 shapes<ul style="list-style-type: none">o Each shape is<ul style="list-style-type: none">▪ Given in two sizes: Big and small▪ Two colours▪ And randomly arranged▪ The worksheet also has each of them numbered (see later why)o Ask students to identify shapes and colourso Please tell them that there are two sizes for each shape• Go to the next slide and identify the names of shapes (with a count of 2 each)• Next, call out so students note that there are “Big” shapes and “Small” shapes• At this stage get the worksheet out:<ul style="list-style-type: none">o Ask the entire class to complete Activity #1. This uses the numbers on each shape. The tabular format helps organize the available information.o Divide the class in two halves and ask the students in each half to do ONLY ONE of activities #2 or #3 (They can do the other at home if they are interested)o You may choose to hold back the last sheet of the worksheets (Activity #4) so the students are not exposed to material covered in following slides.• Get back to Slides. The slide after that shows Big Shapes grouped in a box and Small Shapes grouped in an adjacent box.• Explain how the same information can be arranged in a tabular format, as shown in the following slide• This exercise is repeated for a different attribute – that of the “colour” of the objects. A slide is used to group the objects by colour followed by a table that displays the same information organized in tabular format• The second part of the lesson starts with a random collection of some objects that differ in one major attribute. Each object either belongs to the Kitchen or to a Classroom.

	<ul style="list-style-type: none"> • While the first slide on this collection shows all the objects, the slide after that introduces the concept of “where an object belongs” • Display the slide that has two objects circled. Note that one (Cup and Saucer pair) belongs to the kitchen, while the compass box belongs to the Classroom • At this stage ask the students to complete activity #4. Ask them to circle the objects using two colours so that one set is identified by a colour to belong to kitchen and the other set of object circled by a different colour can be see to belong to the Classroom. • Display the slide that has the solution to the class • Finally show how this information can also be captured in a tabular format
Summary	<p>Summarize the learnings for the students:</p> <ol style="list-style-type: none"> 1. Classification of things and object is a way we can process information 2. We can use a number of properties or “attributes” of each object in a collection to classify, such as: <ol style="list-style-type: none"> a. Shape b. Size c. Colour d. Where it belongs e. Etc. 3. We can summarize the classification in a tabular format, when we classify objects based on their properties or “attributes”