

Which is long? Which is round?

CBSE, Maths, Grade 2, Chapter 1

Lesson Objectives:

Students will be able to:

- Learn the properties of solid shapes.
- Understand the properties of solid shapes, which enable it to roll and slide.
- Classify the solid shapes into rolling, sliding or both.
- Solve simple problems based on the properties of solids.

Resources Required:

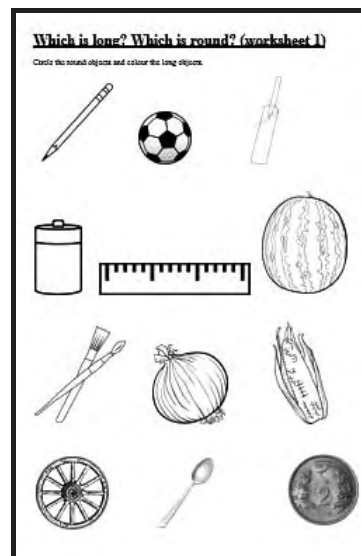
- Solid shapes – cubes, cuboids, cone, cylinders and spheres.
- Real objects – scale, pencil, box, book, marbles, balls, empty containers, perfumes, match box, ice sticks, old batteries, lemon, boiled egg.
- Small size slide. (short benches may be used as a slide when raised at one end)
- Worksheets
- Building blocks kit (comprising of all the solid shapes, mentioned above)

Process

Game: What Shape do you choose? Teacher starts with a game. The teacher will be the first catcher. The students in chorus ask the teacher 'Shape, shape what shape do you choose?'. The teacher tells the name of any one of the shapes, say for example 'circle', then all the children will go around the classroom and look for any circular

shape and pick it. If someone does not get hold of a circle it means that he/she is 'out' and they will become the catcher and the game continues this way. This would aid the children recalling the shapes they have learnt in the previous classes.

Recognising Long and Round shapes: Teacher gives a worksheet and asks the children to identify/pinpoint objects based on the questions 'Which is long? Which is round?' They may be asked to circle the round objects and colour the long objects in the worksheet 1. (Before handing this worksheet, the teacher need not give any explanation on what is long/round). After completing this task, allow the students to discuss with peers and check their worksheets.



Worksheet 1: long /round

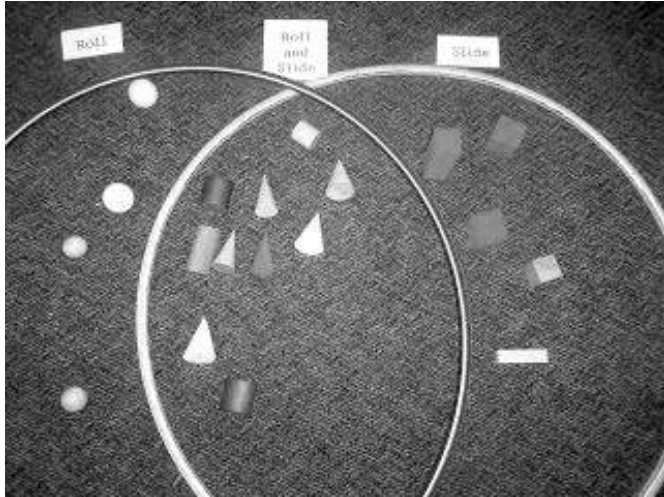
Three long things and three round things: Ask the students to draw three 'long things' and 'three round things' they observe in their surroundings. (This is to check their understanding about long and round).

Rolling or Sliding:

The teacher puts some real objects in bags and gives those bags to each group. Students have to conduct 'Rolling or sliding' experiments. They have to place the things at the top of the slide and watch whether it is rolling or sliding. They have to segregate

the objects accordingly. While performing the experiments, the teacher may ask the children to look for some objects which can both roll as well as slide. As them to place those objects separately.

Space: After completing the experiments and categorising the objects into three groups, the teacher asks the students to bring those objects



and place them in the venn diagram as shown in the picture.

Students will gain an intuitive understanding of the properties of solid shapes which makes them roll or slide or both.

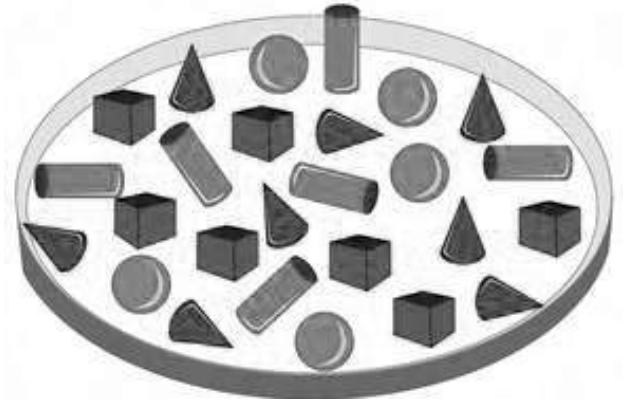
- ✓ The objects that have more number of edges and corners/ flat surface will slide
- ✓ The objects having no edges and no corners/ curved surface will roll
- ✓ The objects with one or two edges/ both flat and curved surface will roll and slide.

Solid Shapes: The students are given solid shapes such as cubes, cuboids, cones, cylinders and sphere. Ask them to classify the objects as rolling, sliding and both rolling & sliding.

Worksheet : The teacher gives the worksheet found below to the students and asks them to mark

R – for Rolling
S – for Sliding

R S – for Rolling and sliding
on the shapes given in the worksheet.



Worksheet 2: Rolling or Sliding

Stack Game: Students will be given objects such as coins, marbles, match boxes, notebooks and pencils. Now ask the students to stack the objects. Let the students identify objects that could be easily stacked and which could not be done so. Students are asked to create towers using the objects that could be stacked and display it in their classroom.

Building Blocks: The teacher hands over the building blocks from the math corner to the students, asking them to construct a building out



of their imagination. This provides them with real - time experience that objects with flat surface could be stacked and the objects with curved surface could not be stacked.

Picture Source :

www.cheapgamesandtoysforkids.com

Worksheet: Teacher gives worksheet no 3 as follow up activity.

Worksheet no 3

Which can roll? Which can slide? And which can do both?

Draw three objects that can roll.

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Draw three objects that can slide.

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Draw three objects that can both roll and slide.

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Worksheet 3: Roll and Slide

Shapes Museum: The teacher conducts another group activity for formative assessment.



Shapes museum

Picture Source: <https://uk.pinterest.com/pin/364228688602362090/visual-search/?x=16&y=16&w=530&h=671>

Students have to set up a shapes museum in their classroom like the one shown in the above picture.



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