

**Project FOCUS
Best Lessons
KINDERGARTEN**

Title of Lesson: Inclined Plane

Theme: Physical Science

Unit Number: 2 **Unit Title:** Motion, Movement and Gravity

Performance Standard(s) Covered (enter codes):

SKP2

Enduring Standards (objectives of activity):

Habits of Mind

- Asks questions
- Uses numbers to quantify
- Works in a group
- Uses tools to measure and view
- Looks at how parts of things are needed
- Describes and compares using physical attributes
- Observes using senses
- Draws and describes observations

Content (key terms and topics covered):

Rolling, inclined plane, motion

Learning Activity (Description in Steps)

Abstract (limit 100 characters): This teaches how the steepness of an inclined plane affects objects rolling down it.

Details: 1. Begin with putting each identical car on each ramp. The teacher should be the first to let go of the cars so the children will be sure to see a difference.

2. Let the children take turns in releasing the cars at the same time.

3. After everybody has had a turn, let the children have a chance to roll the bigger cars down the ramp.

4. After experimenting with the cars, show the children the next object- such as the cube. Get them to see what happens when it is placed on the ramp.

5. Try the next objects for experimentation.

Materials Needed (Type and Quantity):

Two ramps of considerable length with one 3 inches tall and the other 6 inches tall

Two small identical cars and two different bigger cars to roll down the ramps

Other objects such as balls, a wooden cube, and cardboard towel rolls

Notes and Tips (suggested changes, alternative methods, cautions):

It is a good idea to do this in small groups. It is important to reinforce that it is not a race between the cars- the focus should be brought to the steepness of the ramps.

Sources/References:

- 1)**
- 2)**
- 3)**