

Rides & Games

Week 1 – Teacher One-Pager

Focus: Intro to Engineering & Inclined Planes

Summary: We learn about engineering and simple machines and build an inclined plane super slide.

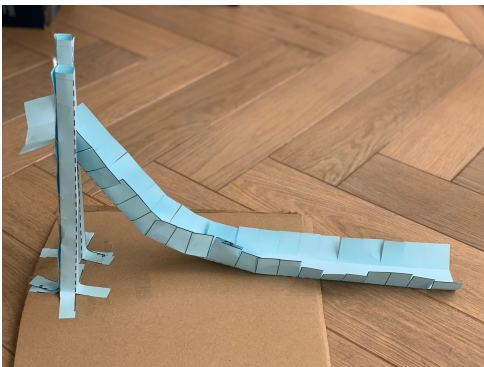
Materials per slide (group or individual):

- Printed Super-Slide sheets (on coloured paper if possible)
- 3 cotton buds
- Ping pong ball
- Cardboard rectangle (~A4 size)
- Scissors
- Tape
- Optional: tape measure or coloured tape
- Optional: exercise books

Session Outline:

1. Warm Up: introduce yourself with your favourite game
2. Intro: what is engineering and about the 6 simple machines
3. Session focus: the inclined plane and how it works
4. Practical challenge: engineer and investigate a super slide
5. Recap

Tips & Ideas for Build:



- Use the terms: inclined plane, incline, gradient, accelerate, speed, momentum, distance.
- You may need to check in on the cutting and folding as children work.
- Encourage investigation and testing of gradient, momentum and distance, adding an inclined plane at the bottom and changing the flat surface to affect friction.
- To measure distances you could use a tape or metre rule or mark and label distances with coloured tape.

- Don't let anyone take their Super Slides home as they'll use them again in Week 3.

Extension Ideas:

- Add piles of books under the cardboard to raise height further.
- Design a table to record investigations.
- Use a ruler and protractor to measure height and angle of inclined plane.

Extra Time Ideas:

- Tidy up.
- Draw an invention that uses an inclined plane that makes your life easier.
- Play a game to name games or rides starting with every letter of the alphabet.