

Forces: push, pull, friction and gravity

5th Class



Print and cut along the dashed lines. These carry the **text a group reads** — a job to do, a brief to research, or notes to identify by. Check the lesson's teacher notes for how many sets each group needs and how they are used: some lessons hand out one card per group, others sort or sequence a full set.

Push and pull

Gently push a book away from you across the desk. Then hold one end of an elastic band still and pull the other end towards you. Do not ping the band. Talk: which action was a push and which was a pull? What started to move? Jot the action and what you felt on your journal page. ¹₂ ³₄

Friction feel-test

Use the same book each time. Drag it across carpet, then the smooth board, then sandpaper. Keep the same hand and the same kind of pull. Talk: which surface felt hardest? Which felt easiest? What force is rubbing between the book and the surface? Jot a quick feel note before you rotate. ¹₂ ³₄

Gravity drop

Stand behind the mat. Hold the soft object at desk height. Predict which way it will go, then drop it (do not throw). Try once with the sponge ball and once with the bean bag. Talk: did both fall the same way? What force pulls them down? Jot what you saw