

# **PULLEYS**

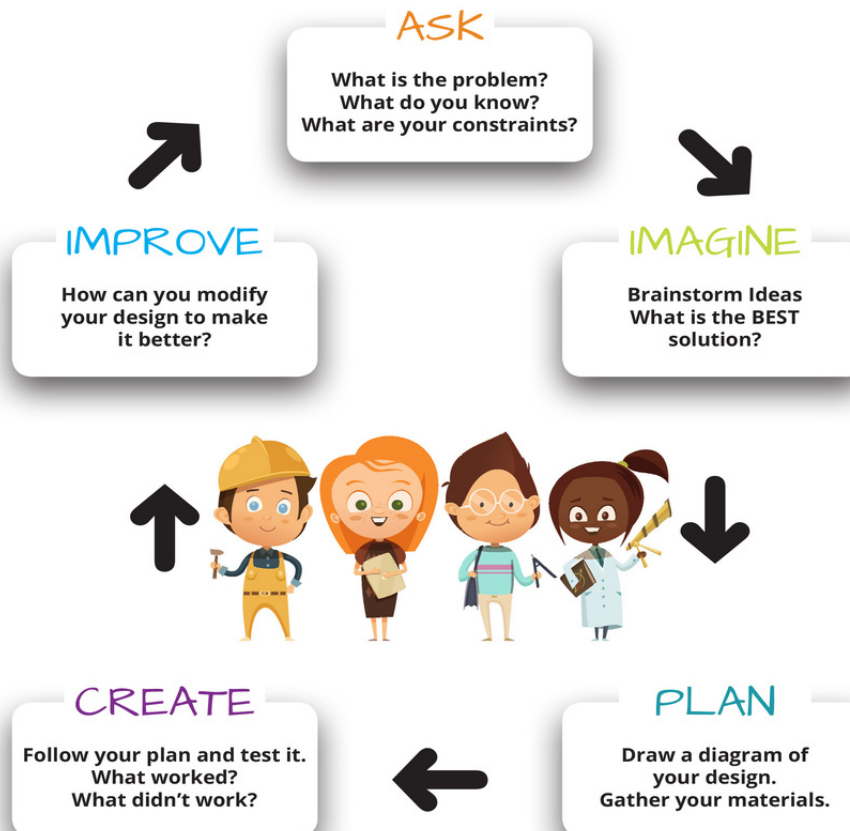
## Introduction to the CHALLENGE (10 mins)

**Design an elevator/lift to pull 2 small toys from the ground to a height of 1 foot or more**

Use the engineering design prompt to come up with an invention of your own

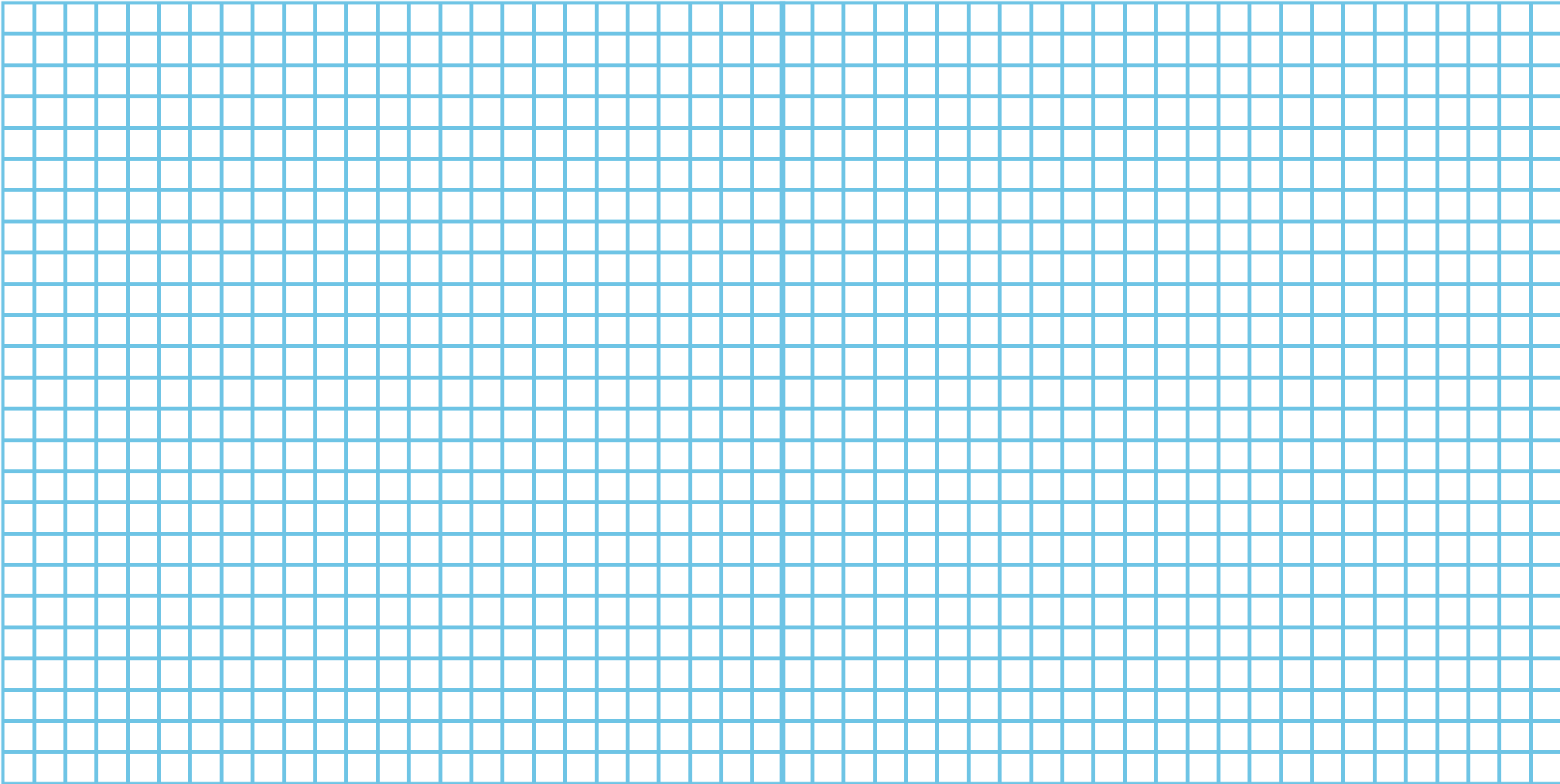


# Engineering Design Process



# Brainstorm and design (10 mins)

What kind of simple machine can be used to lift objects from the ground to a height of 1 foot or more? Sketch below.



Build, test, evaluate and redesign (30 mins)

Discuss what happened (5 MINS)

**Challenge extension:** What happens if you use 2 pulleys instead of 1? Lifting becomes easier or more difficult? Sketch your design below using 2 pulleys.

