P.88

Thinking cap

Do I need more force to lift my school bag or a glass of milk? my school bag

Let's Explore!

P.88

How much force do I need?

1. Place two books on the floor.
2. Lift them up.
3. Now place four books on the floor and lift them up again.
4. Add two more books to the stack and try to lift all six books together.
5. Which stack of books needed the most force to lift? Record your observations in the table below.

Words such as 'some', 'more' and 'most' to describe forces are examples of non-standard units. What is a disadvantage of using non-standard units?

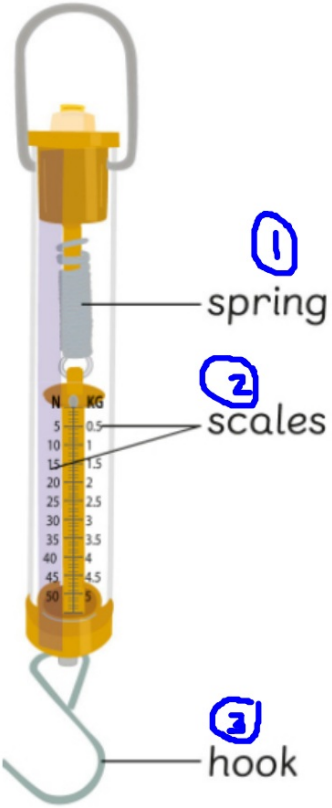
Number of books	Force required (some/more/most)

Let's Learn

How Can Force be Measured?

You have learnt in Stage I that a force is a push or pull.

We can measure force using a **forcemeter**. A simple forcemeter has a spring attached to a vertical scale. The spring is pulled down when an object is attached to the forcemeter. The reading on the scale tells us the amount of force needed to move the object. Force is measured in the unit Newton (N).



Forcemeter with Newton (N) and kilogram (kg) scales

Rosary School / Marj El-Hamam

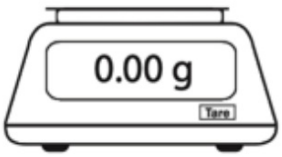
Science Worksheet (6.A.1)

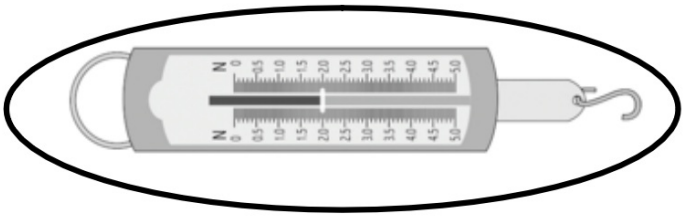
Name: _____ Grade 2 ( )

Date : _____ Lesson **A** : Measuring Forces

Q1: Force can be measured using standard units of measurement. Which instrument can be used to measure force?

Circle the correct answer.





Q2: Min wants to find the exact difference in the amount of force needed to lift a soccer ball and a tennis ball.
What is the best method? Tick (√) the correct answer.

- ☐ Lift each ball in one hand at the same time.
- ☐ Lift the two balls one after the other.
- ☑ Use a forcemeter.