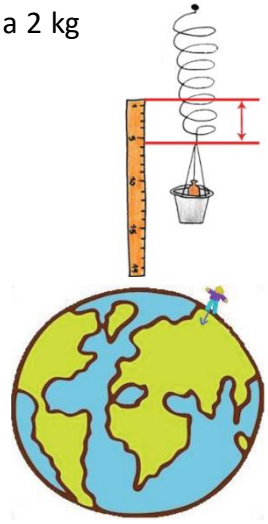
Section 1:
I measure the mass

A) Choose the correct answer for each question:

1. We measure the mass with the unit
   a) kilogram (kg)
   b) kilometer (km)
   c) Newton (N)
   d) meter (m)

2. We measure the weight with the unit
   a) kilogram (kg)
   b) kilometer (km)
   c) Newton (N)
   d) meter (m)

3. We hang a 1 kg weight from a spring. The spring moved 2 cm. We hang a 2 kg weight from the same spring. The spring is now gone
   a) 2 cm
   b) 3 cm
   c) 4 cm
   d) 8 cm



4. A man is 60 kg. About how much is the force that the Earth pulls him towards its center?
   a) 600 N
   b) 30 N
   c) 60 N
   d) 1000 N

B. Write the correct word in each sentence. The words you can write are below. You can use the same word one or more times.

[weight] [mass] [dynamometer] [force]

1. The size that tells us if a material is made of a lot or a little material is called …… .

2. …… is a ……. . The weight of a pineapple on Earth is the ……..the Earth exerts to pull the pineapple towards its center.

3. A simple …….. has a spring.

4. The ……. it does not change from one place to another.

5. One …… has a person on Earth and another on the planet Jupiter.

Write an S next to each sentence if it is True. Write an L next to each sentence if it is False.

1. Weight is the same as mass

2. A thing has the same mass on Earth and in space

3. A thing has the same weight on Earth and on the Moon (moon)

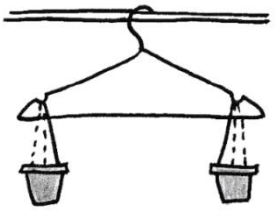
4. In space an astronaut has zero weight

5. With a hanger and two glasses we make a simple dynamometer

6. With a hanger and two glasses we make a balance scale

7. With a spring, a measuring cup and a glass we make a balance scale

8. With a spring, a measuring tape and a glass we make a dynamometer



D) Below you see two columns. In the left column he writes the words 'weight' and 'mass'. In the right column he writes things that match weight or mass. Join one line up each square in the right column with the correct word in the left column.

	how much material a thing has
weight	
	how much force a planet pulls on a thing
	it stays the same everywhere
	it changes in different places
mass	
	we measure it with a dynamometer
	we measure it with a balance scale