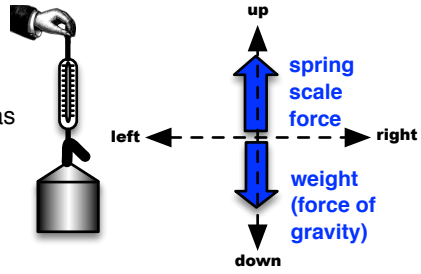
Week 5 Normal & Weight

Weight Activity A

PART 1



1. When will the spring scale force be the same as the weight? (Check all that apply!)
   - ☐ When the weight is at rest.
   - ☐ When the weight is speeding up.
   - ☐ When the weight is slowing down.
   - ☐ When the weight maintains speed.

2. Use your spring scale and the 1 kilogram to fill in the first line of the table.

Then use reasoning to figure out what the other amounts of kilograms would weigh.

mass	weight
1 kg	
2 kg	
10 kg	
0.5 kg	
200 kg	

3.What is Earth's gravitational field strength (Newtons/kg)?

PART 2

4. Use reasoning to reverse the process now and figure out the mass in kilograms.

mass	weight
	40 N
	2 N
	3,000 N

5. Use the spring scale to measure the weight of the wood block in Newtons.

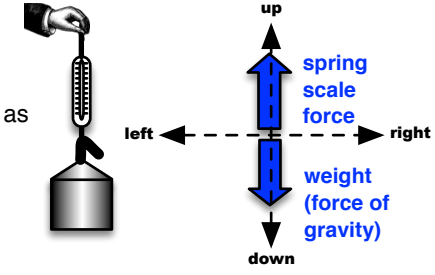
Use reasoning to reverse the process now and figure out its mass in kilograms.

mass	weight

Week 5 Normal & Weight

Weight Activity B

PART 1



1. When will the spring scale force be the same as the weight? (Check all that apply!)
   - ☐ When the weight is at rest.
   - ☐ When the weight is speeding up.
   - ☐ When the weight is slowing down.
   - ☐ When the weight maintains speed.

2. Use your spring scale and the 1 kilogram to fill in the first line of the table.

Then use reasoning to figure out what the other amounts of kilograms would weigh.

mass	weight
1 kg	
5 kg	
20 kg	
0.3 kg	
100 kg	

3.What is Earth's gravitational field strength (Newtons/kg)?

PART 2

4. Use reasoning to reverse the process now and figure out the mass in kilograms.

mass	weight
	50 N
	3 N
	1,000 N

5. Use the spring scale to measure the weight of the wood block in Newtons.

Use reasoning to reverse the process now and figure out its mass in kilograms.

mass	weight