

Forces- Revision Worksheet

State what a **force** is.
.....
.....


Describe the difference between a **contact** and **non-contact force**.
.....
.....
.....

Complete the table below giving examples of each type of **force**.

Contact	Non-Contact

State units used for measuring a **force**

Label the diagram below with all the **forces** acting on the car if it was moving forwards.



Describe what **weight** is.
.....

Describe the difference between **weight** and **mass**.
.....
.....

Calculate the **weight** of an object on **Earth** which has a **mass** of 5 kg.
.....

Define the words below:

Stretched	
Compressed	
Elastic	
Extension	

State what affects the amount of **stretch** or **compression**.

-
-

Describe an **experiment** you could carry out to investigate the **extension** of a **spring**.
.....
.....
.....
.....
.....

Describe what the **limit of proportionality** is and what happens beyond this.
.....
.....

Describe what **friction** is.
.....

Describe a situation where **friction** is useful.
.....
.....

Describe a situation where **friction** is not useful.
.....
.....

Describe how **friction** can be reduced.
.....
.....

Describe 3 effects of **friction** between moving objects.

- 1.
- 2.
- 3.

Describe what **pressure** is.
.....

Explain an example of where **pressure** is important in sports.
.....
.....
.....

State what the size of **pressure** depends on.
.....
.....

Explain an example of where **pressure** is important in everyday life.
.....
.....

State the **formula** for calculating **pressure**.

Calculate the **pressure** from the following **forces** and **areas**.

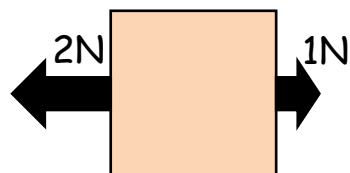
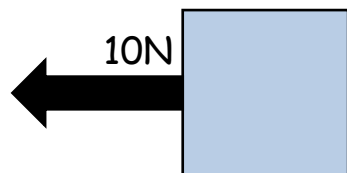
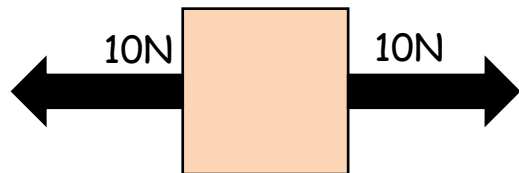
- a) 5N, 2m²
- b) 250N, 0.5m²
- c) 10N, 10cm²
- d) 1N, 30cm²

State the units that **pressure** is measured in.

Describe what **balanced forces** are.

Describe what **unbalanced forces** are.

Describe what would happen to the boxes in the following situations.



Describe the **forces** acting upon a **stationary** object.

Use the idea of **balanced forces** to explain how a **force meter** works.

Rate the following on how well you think you can do them:



I can...

- Recall the effects of forces on an object.
- Name forces and classify them as contact or non-contact forces.
- Recall how to measure forces and masses and their units.
- Describe how the extension of a spring depends on the force applied.
- Summarise information from a presentation or video.
- Use abbreviations to help me to make notes.
- Recall the effects of friction.
- Explain some ways in which friction can be changed.
- Identify situations in which friction is helpful or not helpful.
- Calculate pressure and recall its units.
- Describe the effects of high and low pressure in simple situations.
- Explain why scientists use SI units.
- Record numbers using suitable units.
- Identify balanced and unbalanced forces.
- Explain the effects of balanced and unbalanced forces.