

## Forces & Simple Machines Revision Worksheet

Make sure you use your notes & access the PPT in resources if you need! Good Luck!

friction	force meter	newtons	one
two	push, pull or twist	force	meters

**Q1.** A force is an interaction between \_\_\_\_\_ objects. It can be defined as a \_\_\_\_\_. We measure force using a \_\_\_\_\_ in the units of \_\_\_\_\_.

**Q2.** The effect of a force can change an objects \_\_\_\_\_, \_\_\_\_\_ & \_\_\_\_\_.

**Q3.** A force diagrams shows all the \_\_\_\_\_ acting upon the objects and uses \_\_\_\_\_ to show the amount of force.

**Q4.** The two types of Forces are \_\_\_\_\_ and \_\_\_\_\_.

**Q5.** What is the force that balances gravity?

Air resistance	Applied Force	Air Force	Normal Force
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**Q6.** Which of these is a contact force:

Gravity	Magnetism	Friction	Normal Force
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**Q7.** Which of these is a non-contact force:

Buoyancy	Applied Force	Tension	Gravity
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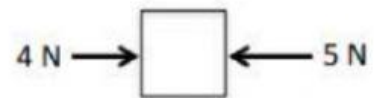
Q8.

a) Calculate the Net Force of this object:



b) Is this force Balanced or Unbalanced?

c) Calculate the Net Force of this object:

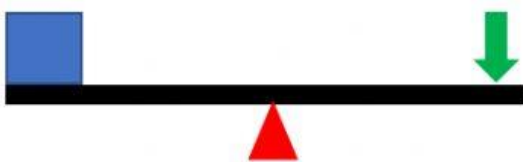


d) Is this force Balanced or Unbalanced?

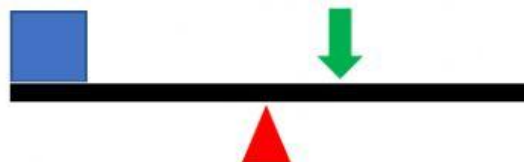
Q9. What do Simple Machines do?

Q10. In a first-class lever, the \_\_\_\_\_ is in the middle.

Q12. Which picture shows the best possible use of a 1<sup>st</sup> lever to lift a load.



A)



B)

Q13. Pick one disadvantage of using an inclined plane to lift a heavy load/object.

- a) The object must be moved a greater distance
- b) It takes less effort to move the object
- c) Many objects are difficult to lift straight up
- d) Heavy objects usually take up more space.