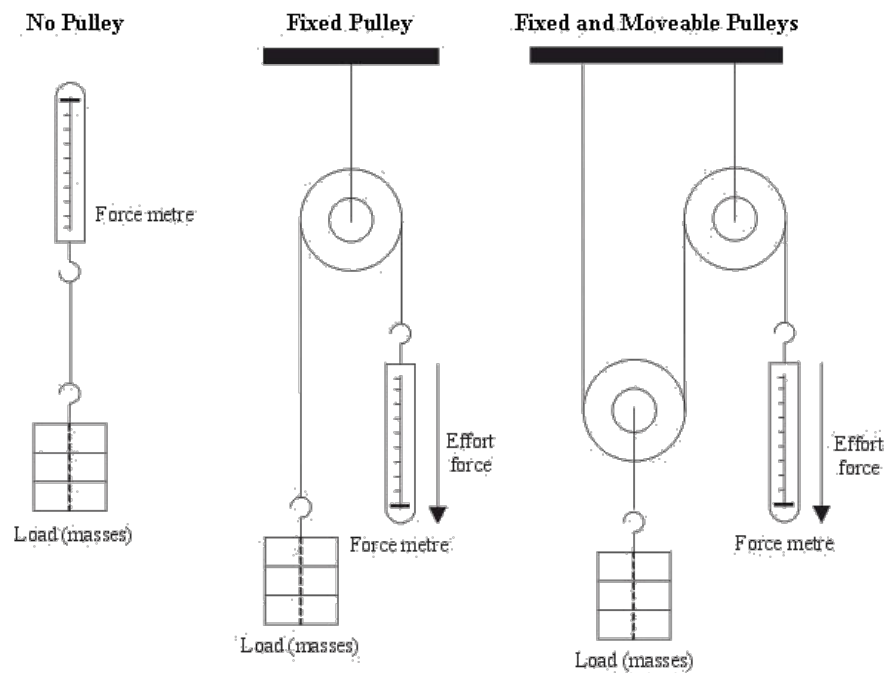


Pulley systems

This task is about investigating pulleys.

Drawn below are two different ways pulleys can be set up, and how a load can be lifted using no pulley.



Set up each of these systems in turn and measure the force that is required to lift the load in each case.

a) Complete this table to show your results

Effort needed to raise load in Newtons			
Load	No pulley	Fixed pulley	Fixed and moveable pulleys
200g			
400g			
600g			

Effort needed to raise load in Newtons

Load	No pulley	Fixed pulley	Fixed and moveable pulleys
200g			
400g			
600g			

b) Why are readings taken for lifting the masses (load) i.e., no pulley, using just the force meter?

Effort needed to raise load in Newtons

Load	No pulley	Fixed pulley	Fixed and moveable pulleys
200g			
400g			
600g			

c) From your results write a conclusion about the effort force needed with the different types of pulleys.

Effort needed to raise load in Newtons

Load	No pulley	Fixed pulley	Fixed and moveable pulleys
200g			
400g			
600g			

d) Carefully describe two situations in which a pulley system would be useful.

1.

2.

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