

# QUESTIONS AND ANSWERS

## FORCES, MOTION, LEVERS

This mobile revision pdf is based on detailed work found in the 'FORCES' section.

Tap on the green and yellow link buttons below to go to the website.



Tap the blue button to view all work covered by this Revision PDF



# QUESTIONS AND ANSWERS FORCES, MOTION, LEVERS

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## HOW TO USE THIS REVISION PDF

Read and attempt answering each question, before following the link to a potential answer. Also, consider working in pairs.

## QUESTIONS ONE TO FIVE

## QUESTIONS SIX TO TEN

## QUESTIONS ELEVEN TO FIFTEEN

**TAP / CLICK THE LINK  
BUTTON FOR ALL  
MOBILE APPS**



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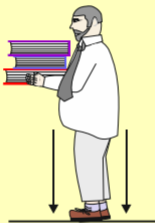
## QUESTION 1a

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

**STANDING STILL**



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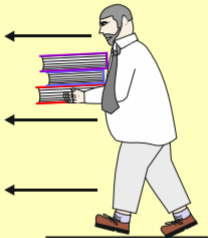


## QUESTION 1b

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**Name and describe the force shown below?**

**Tap the image for a potential answer**



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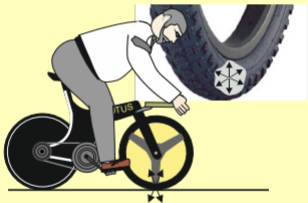
## QUESTION 2a

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

**PUSHING BACK / RESISTING**



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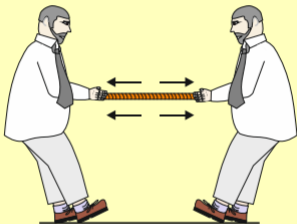
## QUESTION 2b

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

**STRETCHING**



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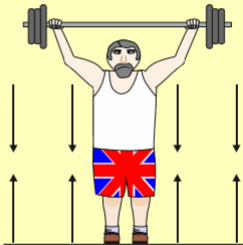
## QUESTION 3a

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

**COMPACTING**



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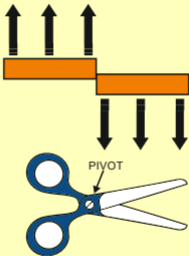
## QUESTION 3b

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

MOVING IN DIFFERENT DIRECTIONS



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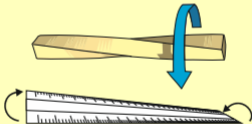
## QUESTION 4a

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**Name and describe the force shown below?**

**Tap the image for a potential answer**

**TWISTING**



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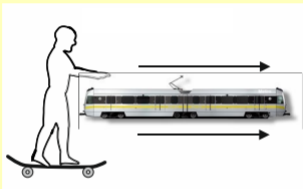


## QUESTION 4b

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**Name and describe the 'motion' shown below?**

**Tap the image for a potential answer**



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## QUESTION 5a

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**Name and describe the 'motion' shown below?**

**Tap the image for a potential answer**



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## QUESTION 5b

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**Name and describe the 'motion' shown below?**

**Tap the image** for a potential answer



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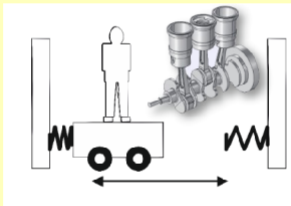


## QUESTION 5c

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**Name and describe the 'motion' shown below?**

**Tap the image** for a potential answer



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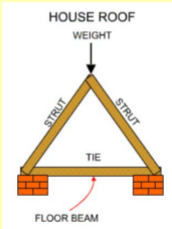


## QUESTION 6a

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**What is the difference between A 'Strut' and a 'Tie', in terms of the force applied to each one?**

**Tap the image for a potential answer**



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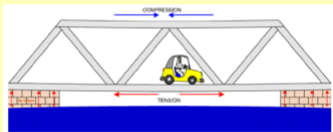


## QUESTION 6b

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**Explain why the top of the bridge is under 'compression' and the roadway is under 'tension'?**

**Tap the image for a potential answer**



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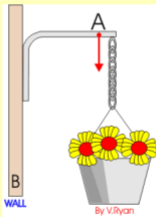


## QUESTION 7a

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The chain holds the plant pot.  
What force is acting on the chain?

Tap the image for a potential answer



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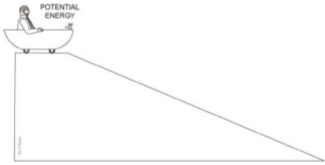


## QUESTION 7b

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### What is 'Potential' Energy?

Tap the image for a potential answer



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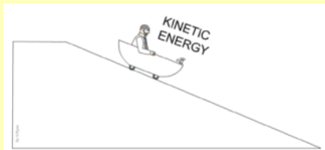


## QUESTION 7c

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### What is 'Kinetic' Energy?

Tap the image for a potential answer



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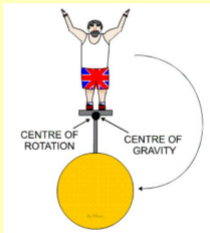


## QUESTION 8

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**What is meant by the term,  
'Centre of Gravity'?**

**Tap the image for a potential answer**



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slide / page.



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## QUESTION 9

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The two cars below are in a 'State of Equilibrium'. What does this mean?

Tap the images for a potential answer



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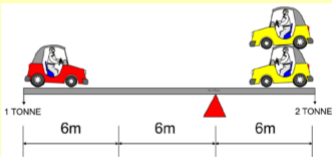


## QUESTION 10

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**Explain why the cars below, are still in a 'State of Equilibrium'.**

**Tap the image for a potential answer**



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## QUESTION 11

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The worker uses a trolley to transport a heavy weight.  
**What class of lever is this?**

**Tap the image** for a potential answer



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## QUESTION 12

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**What class of lever is a wheelbarrow?**

**Tap the image** for a potential answer



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## QUESTION 13

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**What class of lever is a fishing rod?**

**Tap the image** for a potential answer



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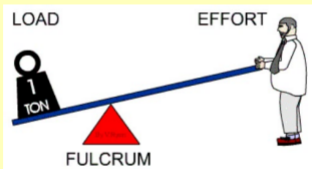


## QUESTION 14

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What is meant scientifically, by the term 'Load'.

Tap the image for a potential answer



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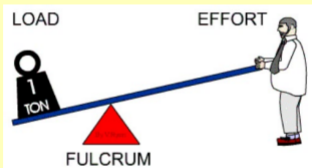


## QUESTION 15

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What is meant scientifically by the term 'Fulcrum'?

Tap the image for a potential answer



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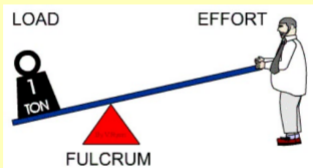


## QUESTION 15

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What is meant scientifically by the term 'Effort'?

Tap the image for a potential answer



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