QUESTIONS AND ANSWERS GEARS

This mobile revision pdf is based on detailed work found in the 'GEARS' 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 GEARS

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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

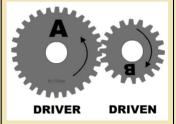
QUESTIONS ELEVEN TO FIFTEEN

TAP / CLICK THE LINK BUTTON FOR ALL MOBILE APPS



This diagram shows 'spur' gears. Why is one gear called the 'driver' and one called the 'driven'??

Tap the image for a potential answer



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QUESTION 1b

Gear 'A' has 30 teeth and gear 'B' has 20 teeth. If gear 'A' turns one revolution, how many times will gear 'B' turn?

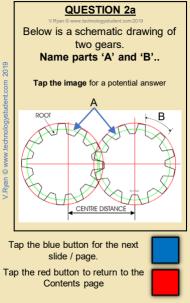
Which gear revolves the fastest?

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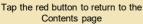


What is the significance of the 'Pitch Point' of meshing gears?

Tap the images for a potential answer



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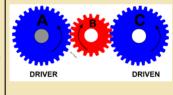


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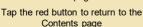
Name gear 'B', seen between the driver and driven gears.

What is the purpose of this centrally positioned gear?

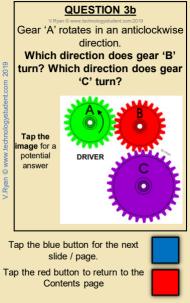
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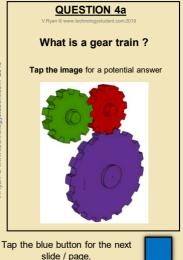


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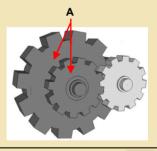




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QUESTION 5a

With reference to the gear arrangement you named in Q4b:

Do both gears rotate at the same speed and direction?

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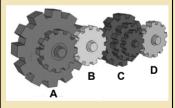
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QUESTION 5b

Which of those goars is act

Which of these gears, is acting as an idler gear?

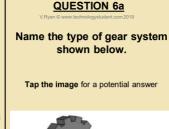
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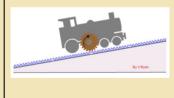


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QUESTION 6b V.Ryan © www.technologystudent.com 2019

Why is the gear system you named in the previous question, useful on steep hills and in mountainous areas?

Tap the image for a potential answer



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Name one practical example of a railway that utilises the system you named / described in the previous question.

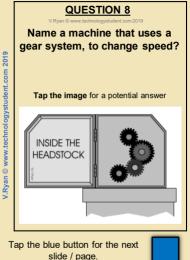
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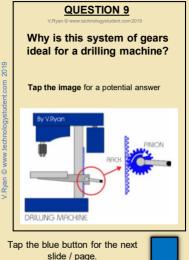
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Name this gear system.

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Describe a practical application of the system of gears shown below.

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What are the advantages of having a bicycle with gears?

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