

Grade 8 Technology Worksheet

Changing axis and direction

1. Look carefully at the table below and answer in with a tick (✓) under Yes or No.

Mechanism	INPUT different from OUTPUT ?	Yes	No
Bevel gears	Is the rotation in a different direction? Is the rotation along a different axis?		
Worm and wheel	Is the rotation in a different direction? Is the rotation along a different axis?		
Belt drive	Is the rotation in a different direction? Is the rotation along a different axis?		
Simple gear train	Is the rotation in a different direction? Is the rotation along a different axis?		
Idler gear	Is the rotation in a different direction? Is the rotation along a different axis?		
Cross-over belt	Is the rotation in a different direction? Is the rotation along a different axis?		

[4 x 6 marks]

[24 marks]

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Suggested Solutions

Question number	Possible marks	Answers			
1	4 x 6 marks	Mechanism	INPUT different from OUTPUT?	Yes	No
		Bevel gears	Is the rotation in a different direction? Is the rotation along a different axis?	✓ ✓	
		Worm and wheel	Is the rotation in a different direction? Is the rotation along a different axis?	✓	✓
		Belt drive	Is the rotation in a different direction? Is the rotation along a different axis?		✓ ✓
		Simple gear train	Is the rotation in a different direction? Is the rotation along a different axis?		✓ ✓
		Idler gear	Is the rotation in a different direction? Is the rotation along a different axis?	✓	✓
		Cross-over belt	Is the rotation in a different direction? Is the rotation along a different axis?	✓	✓

[24 marks]