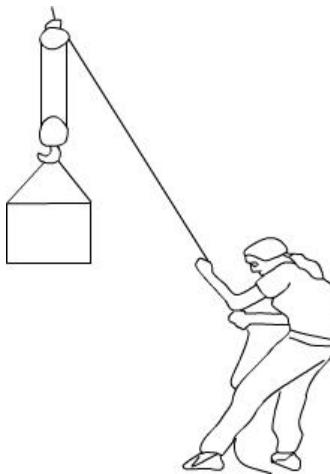


Grade 8 Technology Worksheet

Pulleys: Investigation

1. Study the picture below and answer the questions that follow.

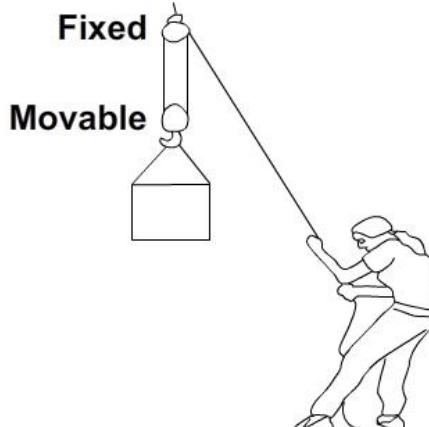


- 1.1 What is the purpose of the pulley? [2 marks]
- 1.2 In which direction is the load being pulled up? [2 marks]
- 1.3 What is the load attached to? [2 marks]
- 1.4 What is the pulley rope attached to? [2 marks]
- 1.5 How is the rope able to stay fastened onto the wheel? [2 marks]
- 1.6 What does the pulley wheel rotate around? [2 marks]
- 1.7 In which direction is the force applied to lift up the load? [2 marks]
- 1.8 Identify the type of pulley in the picture. [2 marks]
- 1.9 How many wheels are there in this picture? [2 marks]
- 1.10 Indicate on the diagram which is the fixed pulley and which is the movable pulley. [2 marks]

[20 marks]

Grade 8 Technology Worksheet

Suggested Solutions

| Question number | Possible marks | Answers |
|-----------------|--|--|
| 1 | 2 marks 2 marks 2 marks 2 marks 2 marks 2 marks 2 marks 2 marks 2 marks 2 marks | 1.1 Lift up 1.2 Vertically 1.3 To a rope 1.4 Wheels 1.5 By means of groove in the rim of the wheels 1.6 An axle 1.7 Downwards (weight of the person) 1.8 Block and tackle 1.9 Two wheels 1.10  |

[20 marks]