



2 Worksheet: Work, energy and power

QUESTION 1

- 1.1 A girl with mass 60 kg slides 3 m down an inclined plane as shown in the picture.

- Calculate the work done on the girl by gravity.
- Calculate the work done on the girl by the normal force.



- 1.2 A block (5 kg) is pulled by a force of 60 N at an angle of 30° to the ground. The block moves 3,25 m.

- Calculate the work done on the block by gravity.
- Calculate the work done on the block by the applied force.



- 1.3 A 1200 kg car is pulled 3 m up an incline (30° with the ground) by a rope exerting a force of 8000 N on the car. The car experiences a 20 N frictional force.

- Draw a labelled free body diagram of all the forces acting on the car.
- Calculate the net work done on the car.



- 1.4



A block (5 kg) is pulled by a 50 N at an angle of 30° to the ground. The block experiences a 4,2 N frictional force and moves 2,60 m. The block starts from rest. Use the work-energy principle to calculate the speed of the block after the 2,60 m.

- 1.5 A film star in a car (together 720 kg) drives 4,8 m down an inclined plane as indicated in the picture. She starts from rest. The car experiences a frictional force of 23 N, and the engine exerts a force of 200 N.

- Calculate the work done on the car by the engine.
- Calculate the velocity of the car after moving 4,8 m.



Answers Pgil Work Power And Kinetic Energy

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Answers Pgil Work Power And Kinetic Energy Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Answers Pgil Work Power And Kinetic Energy**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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