

LEVEL -7

FINAL TERM REVISION WORKSHEET -2

TOPIC : CHAPTER -1-WORK AND ENERGY (BOOK 3)

ANSWERS

I. MULTIPLE CHOICE QUESTIONS

1. The kinetic energy of an object depends on?
 - a. Mass only
 - b. Speed only
 - c. Mass and speed
 - d. None of the above

2. Which is the best definition of work?
 - a. Work is done when a force makes something move.
 - b. Work is done when a force makes something stand still.
 - c. Work is done when no force is used to make an object stand still.
 - d. Work is done when no force is used to move an object.

II. TRUE OR FALSE

3. The amount of work done depends only on the size of force. **FALSE**
4. The units of work and energy are the same. **TRUE**
5. An energy chain is when one type of energy is converted to another.
TRUE

III. DEFINE

6. Gravitational potential energy.

It is the energy stored in an object due to its position above the ground. It depends on both the mass of an object and the height it is lifted above the ground.

7. Energy converters.

Energy can be transformed. Usually it is converted from one form to another by an energy converter. Example:

Hair dryer:

Electrical energy



Thermal energy

IV. The list below gives some energy converters.

Race horse	High jumper	Electric kettle	iPod	Bicycle brakes
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Which energy converter does the following energy conversions:

i. Chemical energy into kinetic energy?

Race horse

ii. Chemical energy into gravitational potential energy?

High jumper

iii. Kinetic energy into thermal (heat) energy?

Bicycle brakes

iv. Electrical energy into thermal (heat) energy?

Electric kettle

v. Electrical energy into sound energy?

iPod