## Welcome to class 9

PHYSICS, CHAPTER-FOUR WORK, POWER AND ENERGY.

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## WHAT IS ENERGY?

We can define energy as the strength to do any kind of physical activity. Thus we can say,

"Energy is the ability to do work"

Doing negative work → taking away energy from the object



Positivework, Force regative work, Force

## TYPES OF ENERGY

There are many types of energy. We will mainly discus about two types of energy:

- 1. Kinetic energy (working)
- 2. Potential energy (static)

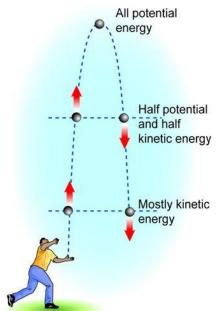


**Energy converts from potential** 

to kinetic

 When you throw a ball straight up in the air the ball leaves your hand with kinetic energy it gained while your hand accelerated it from rest.

- As the ball goes higher, it gains potential energy.
- The ball slows down as it rises so its kinetic energy decreases.
- The increase in potential energy is exactly equal to the decrease in kinetic energy.
- The kinetic energy converts into potential energy, and the ball's total energy stays the same.



## H.W-

- 1. Definition of **Energy**.
- 2. What is Kinetic energy?
- 3. What is **Potential energy**?
- 4. Unit and dimension of **Energy**.
- 5. Solve example Text book pg101
- 6. Explain the law of conservation of energy.
- 7. What do you mean by kinetic energy 50 j of a moving body?
- 8. Make (5+5=10) M.C.Q from Work and Energy. (Watch the video 1<sup>st</sup>) + Quiz ans. E-mail:pulok\_142009@yahoo.com