

# ASSIGNMENT

## Std. 5 Science Ch.9 (Work and Energy)

Answer the following questions:

**Q1. When is work said to be done? give an example. also write the mathematical formula for work.**

**Ans.** Work is said to be done when a force acting on an object causes it to move a certain distance in the direction of force. eg. carrying a bucket of water , running etc.

**Work = force × displacement**

**unit of work is Newton metre or joule**

**Q2. Give two examples where work is not being done.**

**Ans** Work is not being done in the following cases:

**\* a person pushing against a wall.**

**\* a coolie holding a heavy luggage on his head is standing at one place.**

**Q3. On what factors does the amount of work depend?**

**Ans. Work done depends upon:**

- \* a force must be applied on the object.**
- \* the object should move in the direction of the force.**