

Work - Energy

1. In which of the following cases work is done?

- i) A boy kicking a stone along the ground. _____
- ii) A boy pushes a boulder with a lot of force but the boulder does not move _____
- iii) Food is pushed from the mouth into the stomach _____
- iv) A stone is raised by 2m and then lowered by 1m _____
- v) Raju puts on the television and later switches it off. _____

2. Which of the following have potential energy/kinetic energy/both/neither

- i) A stationary ball on the ground _____
- ii) A ball thrown up in the air _____
- iii) A vibrating spring _____
- iv) A rocket shooting off into outer space _____
- v) A stationary man on the top of a hill _____

3. What energy transformation takes place in each of the following

- i) A solar cell _____
- ii) Loudspeaker _____
- iii) Electric iron _____
- iv) Steam engine _____
- v) Rocket _____
- vi) Telephone receiver _____

4. Classify the following sources of energy as renewable / non-renewable

- i) Kerosene _____
- ii) Diesel _____
- iii) Wind _____
- iv) Tides _____
- v) Sun _____
- vi) Firewood _____
- vii) Coal _____
- viii) Water _____