

Winter Break - Home Work.

Class IX. - Physics.

1. Define workdone: Write its formula & unit.
2. Define Energy. Give its unit.
3. Write short note on positive workdone, negative workdone & zero workdone.
4. What is the difference between high pitch and lowpitch sound?
5. What is the difference between soft sound and louder sound?
6. Define potential energy and kinetic energy. Write down the expression for the same.
7. Derive the expression for potential energy and kinetic energy.
8. State law of conservation of energy and prove the same.
- 9) Show that sound needs a medium for propagation, demonstrating an experiment.
- 10) How is echo caused? How can we avoid?
- 11) Write down the applications of ultrasound.
- 12) Write down the multiple reflection of sound.
- 13) Write down the full form of SONAR. Explain the same.
- 14) Write down the ^{audible} frequency range for human being.