



Southern University of Science and Technology (SUSTech) Admissions Exam
Physics Test Topic List:

- Thermodynamics
- Fluid Mechanics
- Free-Body Diagrams and Equilibrium
- Kinematics
- Newton's Second Law
- Momentum
- Electrostatics
- Circuits
- Magnetism
- Vectors
- Energy Conservation
- Gravitation and Circular Motion
- Rotational Motion
- Simple Harmonic Motion

Admissions Exam Physics Test examples

Example No 1.

A plane takes off from rest and accelerates constantly at a rate of 1.0 m/s^2 for 5 min. How far does the plane travel in this time?

- (A) 15 km
- (B) 30 km
- (C) 45 km
- (D) 90 km
- (E) 150 km

Example No 2.

You drop a stone down a well and hear the echo 8.9 s later. If it takes 0.9 s for the echo to travel up the well, approximately how deep is the well?

- (A) 40 m
- (B) 320 m
- (C) 405 m
- (D) 640 m
- (E) 810 m