

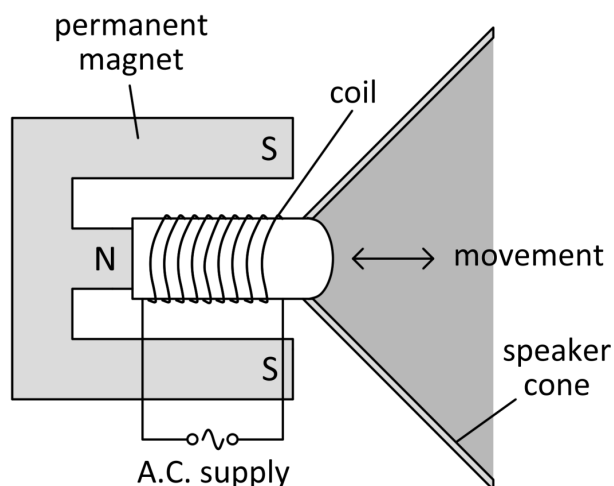
Name:

Class:



Musicians often use loudspeakers to produce sounds.

The figure below shows how a loudspeaker is constructed.



i. What type of wave is generated by the moving cone?

.....

ii. What is the medium of the wave?

.....

iii. What is the speed of sound in a vacuum?

.....

iv. The loudspeaker cone vibrates when an alternating current flows through the coil. Explain why.

.....

.....

.....

.....

.....

.....

A 2.0 kg object moves at a velocity of 40 m/s. What is the momentum of the object?

.....

.....

Momentum = ...

A liquid has a volume of 0.01 m³ and a mass of 12 kg. What is the density of the liquid?

.....

.....

Density = ...

Phosphorus – 32 gives out beta particles. Complete the equation for the beta decay.



What is the half-life of a material?

.....