

Sound

How Is Sound Produced & Propagate

PRODUCTION OF SOUND IN MUSICAL INSTRUMENTS

When a drum is beaten, then the skin of drum vibrates and sound is produced. When the strings of a guitar are plucked and released, they vibrate and produce sound. When air is blown into the flute, pipe, clarinet, saxophone etc., it vibrates in the tube of the instrument and hence sound is produced. Sound is also produced when the birds flap their wings during the flight.



PROPAGATION OF SOUND

When a person speaks, the molecules in the air near his mouth are disturbed. Due to this, these molecules start vibrating to-and-fro about their mean positions. These vibrating molecules then disturb the nearby molecules. This process continues until the molecules in the air next to the listener's ear start vibrating. These vibrating molecules then cause vibrations in the diaphragm of the listener's ear and the sound is heard.

