VIBRATIONS

Sound is made when an object vibrates and therefore causes the air around it to vibrate too. These vibrations are carried to your ear for you to hear them.



Sound vibrations can travel through different

materials:

SOLIDS: metals, stone, wood LIQUIDS: water GASES: air

Sound travels better through some materials than others. It travels very well through metal pipes for example.

The louder the volume, the bigger the vibrations. The size of the vibration is called the **amplitude**. Quieter volumes have smaller amplitudes and louder sounds have larger amplitudes.

Sounds travel in a *wave*. The vibrations make *air particles* closes to the object vibrate, which then passes the vibrations to the particle next to it and so on - like dominoes falling!

Sound

Outer Ear

Middle ear bones which include the hammer, anvil and stirrup. (The smallest bones in the human body!)

Ear drum which passes vibrations to the middle ear bones.



DID YOU KNOW? Sounds get fainter (quieter) as the distance from the sound source increases.

> Nerve sends electrical signals to the brain.

Cochlea contains thousands of tiny hair cells which change the vibrations to electrical signals.

DID YOU KNOW?

Soundproofing is when a material is used to absorb loud sounds. Recording studios or night clubs might use them to stop sound escaping the room! Soft, spongev or pliable material is often best for this.

PITCH

The pitch of a sound is how high or how low it sounds. A high pitch has a high sound and a low pitch has a low sound.

Stringed Instruments

Tighter, thinner or shorter strings make higher pitches. Faster vibrations make pitches high and slower vibrations make pitches low.



Wind Instruments The column of air inside the instrument causes it to vibrate. Shortening this makes a higher sound, lengthening it makes a lower sound.



Percussion Instruments The surface is struck and it

therefore vibrates. Smaller instruments have higher sounds (smaller keys of a xylophone, hand bells etc.). The tighter or thinner the skin on a drum, the higher the





THE DIGESTIVE SYSTEM AND TEETH Mouth - Where food first enters the body. It is chewed and mixed with Oral cavity saliva, then swallowed. Tonaue Teeth - Used to break Oesophagus food into smaller pieces making it easier to swallow. Oesophagus - Tube of Liver muscle which connects Stomach the mouth to the stomach. Gallbladder Stomach - Food is mixed with stomach acid body and broken down to form a liquid. Large Intestine Small Intesine Colon Appendix Rectum - Any waste we do not need is stored here until it is ready to Page 5 of 10

leave the body.



1.) Tooth decay is the destruction of your tooth enamel

2.) It can be a problem for children, teens and adults.

3.) Plaque, a sticky film of bacteria, constantly forms on your teeth.

4.) When you eat or drink foods containing sugars, the bacteria in plaque produce acids that attack tooth enamel.

5.) Tooth ache and bad breath are symptoms of tooth decay.

<u>Intestines</u> – Liquid from the stomach passes into the small and large intestines. This is where nutrients and water we need is passed into the blood stream and transported around our

> INCISORS - At the front of the mouth and used for biting CANINES - Sharpest teeth. Next to incisors and used for tearing. Sharp and pointed in predators for killing prey. PREMOLARS - Flat, wide and used for chewing towards the back of the mouth. MOLARS - At the back of the mouth. Used for chewing and grinding food. Wide and flat in shape, including wisdom teeth at the back which appear in adulthood.