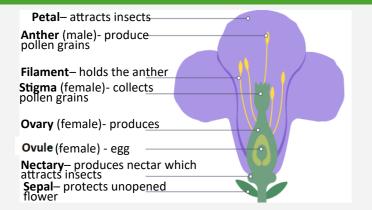
Science—Topic 5

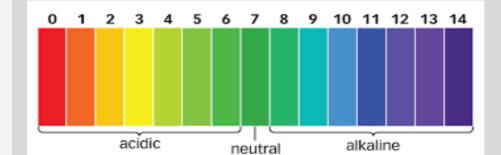
Year 7

(1) Biology—Plant Reproduction



The **pH** of a substance can be found using an **indicator**. **Universal Indicator**

(2) Chemistry— Acids and Alkalis



Pollination

Pollination is when **pollen grains** move from the **anther** of a flower to the stigma of another flower. This can happen by wind or insects. We depend on insects like honey bees to pollinate most of our crops and therefore food production.

Seeds and Fruit

When a pollen grain lands on the stigma of a flower, a pollen tube grows until it meets an ovule in the ovary. Fertilisation happens. The female parts of the flower develops into a fruit. The ovules become seeds.

(4) Biology— Seed Dispersal

Dispersal

Seeds must be dispersed (spread away from each other) to reduce competition between new plants.

Method	Detail
Wind	Seeds have lightweight parts, wings or parachutes
Animals (inside)	Brightly coloured and tasty fruits contain seeds with indigestible coats, so that the seeds pass through the animal's digestive system undamaged
Animals (outside)	Fruits have hooks that attach them to the fur of passing
Self-propelled	Have a pod that bursts open when ripe, throwing the seeds away from the plant

Trinity TV

For more help, visit Trinity TV and watch the following videos:

Trinity TV > Year 7> Science

(4) Chemistry—Acid Reaction Acid reactions

cloudy the gas is carbon dioxide.

Litmus Paper

Δ

ACIDIC SOLUTION

NEUTRAL SOLUTION

ALKALINE SOLUTION

Acid + alka	ıli ->	salt +	water	
Acid + met	:al ->	salt +	hydroger	ı
Acid + carb	oonate ->	salt +	water +	carbon dioxi

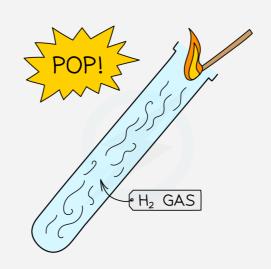
ide To test the gas produced we can insert a lit splint, if a squeaky pop is heard the gas is **hydrogen**. We could also bubble the gas through **limewater**, if the limewater turns

Red litmus

Stays red

Stays red

Turns blue



(3) Physics—Sound

Waveleng	th
Frequency	,
Peak	
Trough	
Amplitude	•

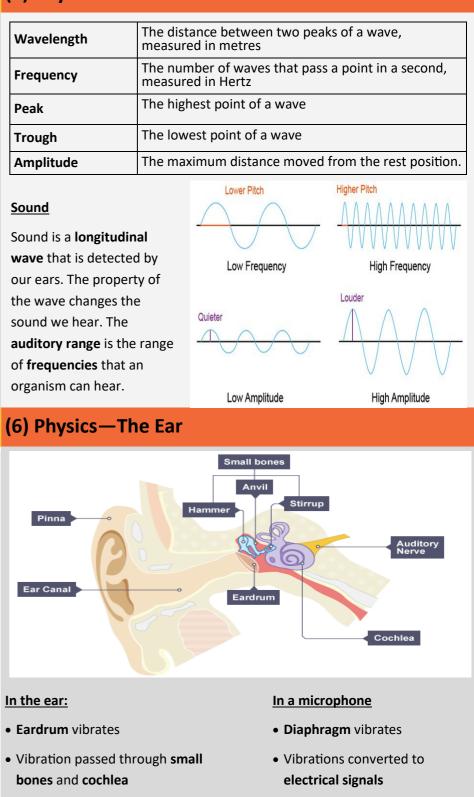
Blue litmus

Turns red

Stays blue

Stays blue

sound we hear. The organism can hear.



- Eardrum vibrates
- Signals sent from cochlea to auditory nerve.
- Signals sent from auditory nerve to brain

Term 5







• Signals passed down a wire to a speaker