

SCIENCE NOTES



plants

phloem – tubes going up a plant and down the roots carrying food and minerals

xylem – tubes going up a plant and down the roots carrying water

stimulus – it causes something to react ie: a hot pan

response – the reaction to something in the environment ie: jerking your hand away

annual ring – one year's growth on a stem or root (a layer of spring wood cells and summerwood cells)

tropism – when a plant responds to some stimulus by growing

phototropism – when a plant grows because of light

hydrotropism – when a plant's roots grow toward the water

positive geotropism – when a plant's roots grow down, with the pull of gravity, to get water

negative geotropism – when a plant grows up, against the pull of gravity, to get sunlight

thigmotropism – when a plant grows because of touch or pressure

respiration – “plants breathing” ie: take in carbon dioxide and give off oxygen (remind that we inhale O and exhale CO₂)

transpiration – when water moves through a plant
ie: “plants sweating” water leaves the plants through the leaves and stems

photosynthesis – when plants make their own food

Formula for photosynthesis:

CARBON DIOXIDE + WATER + CHLOROPHYLL + SUNLIGHT = SUGARS - OXYGEN

CO₂ + W + Chlorophyll + Sun = food – O

stomata – “mouths” or openings on the underside of leaves which gases enter and leave: CO₂ enters and O leaves