

7Aa – Heart transplants/Human organs/Organ parts

Word	Pronunciation	Meaning
brain		Organ that controls what the body does.
flower		Part of a plant used for reproduction.
foodpipe		Organ in the shape of a tube that takes food from your mouth to your stomach. Also called 'gullet'.
function		Job.
gullet	<i>gull-ett</i>	More scientific name for 'foodpipe'.
heart		Organ that pumps blood.
heart transplant		Putting a new heart into someone.
intestines	<i>in-test-ins</i>	The small intestine and large intestine together.
kidneys		Organs used to clean the blood and make urine.
large intestine	<i>in-test-in</i>	Organ that removes water from unwanted food.
leaf		Plant organ used to make food by photosynthesis.
liver		Organ used to make and destroy substances in our bodies.
lungs		Organs used to take oxygen out of the air and put waste carbon dioxide into the air.
organ		A large part of a plant or animal that does a very important job. It is made from different tissues.
photosynthesis	<i>foto-sinth-e-sis</i>	Process that plants use to make their own food. It needs light to work.
root		Plant organ used to take water out of the soil.
root hair tissue		Found in roots. Takes in water from the soil.
skin		Organ used for protection and feeling.
small intestine	<i>in-test-in</i>	Organ used to break up and absorb food.
stem		Plant organ used to take water to the leaves and to support the leaves.
stomach	<i>stum-ack</i>	Organ used to break up food.
tissue		Organs are made of different tissues.
trachea	<i>track-ee-a</i>	More scientific name for 'windpipe'.
windpipe		Organ in the shape of a tube that takes air to and from your lungs. Also called 'trachea'.
xylem tissue	<i>zy-lem</i>	Found in roots, stems and leaves. Transports water.

7Ab – Seeing is believing/On the slide

Word	Pronunciation	Meaning
biopsy		When a small piece of tissue is taken from the body and looked at in detail, to check for certain diseases or problems.
coarse focusing wheel		Wheel on a microscope that moves parts of the microscope a large amount to get the image into focus.

7Ab – Seeing is believing/On the slide (continued)

Word	Pronunciation	Meaning
coverslip		Thin piece of glass used to hold a specimen in place on a slide.
eyepiece lens		Part of the microscope you look down.
focus		Make an image clear and sharp.
fine focusing wheel		Wheel on a microscope that moves parts of the microscope a small amount to get the image into focus
image		What you see down a microscope.
magnification	<i>mag-nif-ick-ay-shun</i>	How much bigger a microscope makes something appear.
magnify	<i>mag-nif-eye</i>	To make something look bigger.
microscope	<i>my-crow-scope</i>	Piece of equipment used to magnify small things.
objective lens		Part of the microscope that is closest to what you are looking at.
slide		Glass sheet that a specimen is put on.
specimen	<i>spess-im-men</i>	What you look at down a microscope.
stage		Part of a microscope. You put slides on it.
stain		Dye used to colour parts of a cell to make them easier to see.

7Ac – Building a life

Word	Pronunciation	Meaning
cell	<i>sell</i>	The basic unit that living things are made of.
cell surface membrane	<i>mem-brayn</i>	Controls what goes into and out of a cell.
cellulose		A strong plant material used to make cell walls.
cell wall		Tough wall around plant cells. Helps to support the cell.
chlorophyll	<i>klor-O-fill</i>	Green substance found inside chloroplasts
chloroplast	<i>klor-O-plast</i>	Green disc containing chlorophyll. Found in plant cells. Where the plant makes food using photosynthesis.
cytoplasm	<i>site-O-plaz-m</i>	Watery jelly inside a cell where the cell's activities happen.
nucleus	<i>new-clee-us</i>	The 'control centre' of a cell.
vacuole	<i>vack-you-oll</i>	Storage space in plant cells.

7Ad – Shaped for the job/Cell division

Word	Pronunciation	Meaning
adapted		When something has special features that allow it to carry out its function.
cell division		When a cell splits in two. New cells are made using cell division.
cilia	<i>sil-lee-ah</i>	Small hairs on the surface of some cells.

7Ad – Shaped for the job/Cell division (continued)

Word	Pronunciation	Meaning
ciliated	<i>sil-lee-ay-ted</i>	Having cilia.
ciliated epithelial cell	<i>sil-lee-ay-ted ep-pee-theel-ee-al</i>	Cell with cilia found in the lungs.
daughter cell		The two new cells made by cell division are called daughter cells.
excrete	<i>ex-kreet</i>	Getting rid of waste materials from the body.
muscle cell	<i>muss-ell</i>	Cell that can change its length and so help us to move.
nerve cell		Cell that carries signals around the body. Also called a 'neuron'.
neuron (or neurone)	<i>nyour-on (nyour-own)</i>	Another name for a nerve cell.
nutrition	<i>new-trish-on</i>	Another word for food.
palisade cell	<i>pal-iss-aid</i>	Cell that contains many chloroplasts and is found in leaves.
root hair cell		Cell found in roots. It has a large surface area to help the cell absorb water quickly.
theory	<i>thear-ree</i>	A scientific idea about why something happens, which can be tested by experiments.
tissue	<i>tiss-you</i>	A group of the same cells all doing the same job.
xylem cell	<i>zy-lem sell</i>	Cell used to form tubes of xylem tissue which carry water.

7Ae – All systems go/Plant systems/Finding out what's wrong

Word	Pronunciation	Meaning
breathing system	<i>bree-thing</i>	Organ system that takes in oxygen and gets rid of carbon dioxide from our bodies.
circulatory system	<i>serk-you-late-or-ee</i>	Organ system that carries oxygen and food around the body.
digestive system	<i>die-jest-iv</i>	Organ system that breaks down our food.
excretory system	<i>ex-kree-torr-ee</i>	Organ system that cleans the blood.
heart transplant		When the heart from someone who has died is used to replace a damaged heart in someone else.
nervous system	<i>nerve-us</i>	Organ system that carries signals around the body.
organ system		Collection of organs working together to do a very important job.
water transport system		Collection of plant organs working together to carry water up a plant.

7Ae – Focus on: Dialysis

Word	Pronunciation	Meaning
dialysis machine	<i>die-al-ee-sis</i>	Machine that does the job of the kidneys and cleans the blood.
excretory system	<i>ex-kree-torr-ee</i>	Organ system that cleans the blood.