

Year 9 Science Assessment – Autumn Term Revision List

Practical Skills

- Draw a line graph including the labelling and scaling of axes. This includes drawing a line of best fit.
- Identify the variables of an investigation.
- The meaning of independent, dependent and control variables
- The names of lab equipment used in science.

Ecology

- Heredity as the process by which genetic information is transmitted from one generation to the next.
- A simple model of chromosomes, genes and DNA in heredity.
- Differences between species.
- That variation can be continuous or discontinuous.
- Changes in the environment may leave some organisms less well adapted to compete successfully and reproduce, which in turn may lead to extinction.
- About interdependence of organisms in an ecosystem, including food chains, webs and insect-pollinated crops.
- How organisms affect and are affected by, their environment, including the accumulation of toxic materials.

Waves

- All waves transfer energy without transferring matter.
- Water waves are an example of transverse waves
- Sound waves are an example of longitudinal and travel by vibrations.
- Sound wave's frequency is measured in Hertz.
- Sound needs a medium to travel and travels at different speeds in solids, liquids and gases.
- Some use and applications of waves (e.g. ultrasound).
- Label the wavelength and amplitude of a transverse wave.
- Compare two waves with similar/different wavelength and amplitude.