

Dear Parent/Carer,

Year 8 exam week is the week commencing the 14<sup>th</sup> October and I am writing to give you information about the science exam.

The exam will take place in the classroom, supervised by the class teacher, during one of the lessons of that week.

The exam will test the year 7 content with some application and testing of experimental skills.

This will include:

1. Reproduction: structures, cells, development of the foetus and how it gets food/oxygen.
2. Ecology: food chains, food webs, pyramids of numbers, impact of changing one part of the food web. Adaptations including for hot/cool climates.
3. Reading and describing trends in data from tables and graphs.
4. Experimental design: independent variables, dependent variables, control variables. Evaluating experimental procedures.
5. Cells: plant and animal cells – structures and functions of the parts. Know the differences between them.
6. Mixtures: methods for separation including distillation, filtration and chromatography. The method for chromatography and how to interpret the results.
7. Acids and alkalis: indicators, pH, neutralisation.
8. Elements/mixtures/compounds: changes of state, chemical symbols, looking at a formula and knowing how many atoms are present and what atoms are present.
9. Electricity: circuit diagrams, series and parallel circuits. Know the component symbols.
10. Forces and pressure.
11. Energy transfers.

To support your child you could access Seneca: <https://www.senecalearning.com/> and BBC bitesize <https://www.bbc.co.uk/bitesize/subjects/zng4d2p> in addition to class notes from year 7.

Thank you for your support,

Kind regards,

Lisa McCarthy

**KS3 Lead for Science**