




Year 8 Core Examinations information 2024-25

In addition to the Knowledge organisers that are hyperlinked for each subject, staff will also be setting revision tasks on Go4Schools. Some of these tasks will be set on the online learning platforms we subscribe to on student's behalf. The logon details are below, and it is possible to reset passwords for each site using students school email account. If your child has any problems, please ask them to contact Mr Bird, daniel.bird@csschool.co.uk.

	Username: firstname.surname Password: username
	Username: firstname.surname@csschool.co.uk Password: seneca2020
	Username: firstname.surname@csschool.co.uk Password: Stretton2021

Year 8 English

- ❑ An essay question on [‘Animal Farm’ by George Orwell](#).

Preparation:

- Students will have a lesson preparing for the assessment.
- Students may make a plan for the assessment in the preparation lesson, **but these notes cannot be brought into the assessment.**

In the assessment:

Students can have access to:

The assessment Task (see Appendix 1)

- Students **cannot** bring in their copies of *Animal Farm*
- Students **cannot** take a notes page into the assessment.

Students should be given a maximum of **1 hour 15 minutes** to write their essay in exam conditions.

Year 8 Maths

Topic list:

May include all Year 7 content and the addition of:

Algebra

- Solve equations with unknowns on both sides, including where they are negative
- Solve equations with brackets
- Expand single brackets and simplify
- Expand double brackets
- Factorise expressions by taking out a common factor
- Describe the term-to-term rule for sequences – linear, geometric and Fibonacci types
- Find and justify the linear nth term from a diagrammatic situation
- Interpret distance/time graphs
- Find speed from a distance/time graph
- Use function machines to find rules for linear graphs
- State the value of the gradient and y-intercept given an equation of a straight line
- Find the gradient of a line segment
- Draw a line segment with a given gradient
- Draw simple quadratic graphs
- Describe and identify inequalities on a number line

Geometry

- Enlarge a shape given a positive integer or positive fractional scale factor
- Describe enlargements where the scale factor is a positive integer or positive fraction
- Calculate the area of a trapezium
- Calculate the area of a circle as decimal and in terms of pi
- Calculate the area and circumference of parts of circles ($1/2$, $1/4$, $3/4$)
- Calculate the surface area of prisms (cuboids and triangular)
- Calculate the volume of a prism, including cylinders
- Calculate missing angles using angles in parallel lines rules
- Know and use the angle sum for quadrilaterals

Number

- Convert between common metric units of mass and capacity
- Convert between miles and km
- Laws of indices
- Round to significant figures
- Estimate calculations by rounding to one significant figure
- Recognise and apply direct proportion
- Understand that the graph that represents direct proportion is linear and crosses through the origin
- Solve problems involving speed, distance and time
- Express as a proportion
- Increase and decrease by a percentage

Statistics

- Complete and interpret frequency trees
- Identify the type of correlation
- Plot scatter graphs, identify the correlation and interpret this as a relationship between the variables
- Draw lines of best fit on scatter graphs and use them to make predictions
- Construct and read from stem and leaf diagrams
- Know the difference between discrete and continuous data
- Draw frequency polygons and histograms for equal sized groups
- Calculate averages and range from a grouped frequency table

Probability

- P (not A)
- Calculate the number of expected outcomes for single events
- Use experiments to find relative frequency
- Use relative frequency to calculate the number of expected outcomes
- Use systematic listing to find the outcomes of two or more events and use these to calculate probability
- Use sample space diagrams to find the outcomes of two events and use these to calculate probability
- Use frequency trees to calculate probability
- Use two-way tables to calculate probability

Year 7 Science

Biology

- [Working scientifically](#)
- [Cells](#)
- [Structure and function of body systems](#)

Chemistry

- [Particles and their behaviour](#)
- [Elements, atoms, and compounds](#)
- [Reactions](#)

Physics

- [Forces](#)
- [Sound](#)
- [Light](#)

Year 8 Science

Biology

- [Reproduction](#)
- [Health and lifestyle](#)
- [Ecosystem processes](#)

Chemistry

- [Acids and alkalis](#)
- [The periodic table](#)
- [Separation techniques](#)

Physics

- [Space](#)
- [Electricity and Magnetism](#)
- [Energy](#)

Year 7 DT

Food – Food safety and healthy choices (knowledge organiser – [Theory](#) and [skills](#))

Resistant materials – Polymers and smart materials (knowledge organiser – [Theory](#) and [skills](#))

Textiles – Fibres, yarns and fabrics (knowledge organiser – [Theory](#) and [skills](#))

Year 8 DT

Food – Food provenance, food nutrition and health (knowledge organiser – [Theory](#) and [skills](#))

Resistant materials – Timbers and finishes (knowledge organiser – [Theory](#) and [skills](#))

Textiles – Fibres, yarns and fabrics (knowledge organiser – [Theory](#) and [skills](#))