




## Year 9 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](mailto: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 9 English

- An exam essay based on “Small Island” by Andrea Levy
- A character question on the play

## Year 9 Maths

May include all Year 7 and 8 content and the addition of:

### Algebra

- Substitute into function notation
- Use graphs to solve linear or quadratic equations
- Find the equation of a straight line in the form  $y = mx + c$  using gradient and y-intercept
- Find and interpret the gradient and y-intercept of linear real-life graphs
- Give the units of the gradient as a compound unit
- Read values from real life graphs, including those that are linear and those in the form  $y = a^x$  and  $y = 1/x$
- Find the value of numbers written in index notation, including  $x^0$  and  $x^{-1}$
- Factorise quadratic expressions
- Solve linear inequalities, including combined inequalities
- Re-arranging formula by balancing
- Plot graphs to solve linear simultaneous equations graphically
- Solve simultaneous equations with positive terms by finding the difference between the equations

### Geometry

- Use a scale to interpret a diagram or map
- Measure and draw journeys using bearings and a scale
- Use bearings to fix a position
- Know and use the conditions for congruent triangles
- Bisect a line and angle
- Construct a perpendicular from a point to/on a line
- Accurately construct loci
- Arc length and area of sectors
- Perimeter of sectors
- Calculate the missing side in right-angled triangles using Pythagoras' theorem
- Calculate missing exterior and interior angles in irregular or regular polygons
- Draw a shape after a combined transformation then describe it as a single transformation
- Surface area and volume of compound prisms
- Calculate missing sides and angles in right angled triangles using trigonometry

## Number

- Find upper and lower bounds
- Write error intervals using inequality notation
- Identify reciprocals of fractions and mixed numbers
- Solve problems involving inverse proportion
- Recognise graphs of direct and inverse proportion
- Compare offers to find the best buy by considering unit price or comparing the same quantity
- Calculate density, mass and volume
- Convert numbers between standard form and normal form
- Expressing a proportionate change as a fraction, decimal or %
- Calculate a reverse percentage
- Calculate simple interest

## Statistics

- Draw and interpret pie charts and scatter graphs
- Calculate averages from charts, graphs and frequency tables

## Probability

- Compare the relative frequency and theoretical probability of an event
- Understand and use set notation to describe the universal set and subsets
- Understand and use set notation for the union, intersection and complement
- Calculate probabilities from a Venn diagram using set notation

## Year 9 Science

### Biology

- [Working scientifically](#)
- [Cells](#)
- [Structure and function of body systems](#)
- [Reproduction](#)
- [Health and lifestyle](#)
- [Ecosystem processes](#)
- [Adaptation and inheritance](#)

### Chemistry

- [Particles and their behaviour](#)
- [Elements, atoms, and compounds](#)
- [Reactions](#)
- [Acids and alkalis](#)
- [The periodic table](#)
- [Separation techniques](#)
- [Metals and acids](#)
- [The Earth](#)

### Physics

- [Forces](#)
- [Sound](#)
- [Light](#)
- [Space](#)
- [Electricity and Magnetism](#)
- [Energy](#)
- [Motion and pressure](#)

## Year 9 DT

### **Food**

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

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

HATTIE, doughs, setting mixtures and International cuisines (knowledge organiser – [Theory](#) and [skills](#))

### **Resistant materials**

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

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

Access FM and metals (knowledge organiser – [Theory](#) and [skills](#))

### **Textiles**

Year 7 Fibres, yarns and fabrics (knowledge organiser – [Theory](#) and [skills](#))

Year 8 Fibres, yarns and fabrics (knowledge organiser – [Theory](#) and [skills](#))

Year 9 Fibres, yarns and fabrics (knowledge organiser – [Theory](#) and [skills](#))