**Independent study - Year 10**

Year 10 students should watch the following clips on mathswatch, and complete the corresponding worksheets and questions within the video. They should ensure they make notes on this.

**10M7 (Mr Liston), 10M6 (Mr Winter) and 10M5 (Miss Jay)**

* Clip 117 – area of a circle
* Clip 118 – circumference of a circle
* Clips 53-56 – area of 2D shapes
* Clips 114a and 114b – surface area
* Clips 70-74 – working with fractions
* Clips 85-89 – working with percentages

**10M4 (Mr Reynolds), 10M3 (Miss May) and 10M2 (Mr Bedford)**

* Clip 140 – simultaneous equations (graphically)
* Clip 162 - simultaneous equations (algebraically)
* Clip 151 – Probability tree diagrams
* Clip 175 – Harder tree diagrams
* Clips 127a and 127b – Sets and venn diagrams
* Clips 210a and 210b – algebraic fractions

**10M1 (Mr Gulliver)**

* Clip 177 – Recurring decimals to fractions
* Clip 178 – Product of three binomials
* Clip 179 – Iteration
* Clip 180 – Iterative process
* Clips 181a and 181b Enlargements
* Clip 182 – combinations of transformations
* Clip 183 – Circle theorems
* Clip 184 – Proof of circle theorems
* Clip 185 Probability using venn diagrams
* Clip 186 – Cumulative frequency
* Clip 187 – Boxplots

Teachers may also provide extra work to be completed subsequent to this through mymaths. Students will need to review their individual homework accounts on mymaths.

The school login for Mymaths is as follows:

**Username: sgcs**

**Password: volume**

Students should know their passwords for their personal portal. However, if you have any problems with logins or the work set, then please do not hesitate to contact Mr Winter or Mr Reynolds:

[twinter@stgcc.co.uk](mailto:twinter@stgcc.co.uk)

jreynolds@stgcc.co.uk