



| Subject                                                                                                                                                                                                                                                                                                       | Year                                                                                                                                                                                                                                                      | Term                                                                                                                                                                                                                                                                               |          |       |              |       |        |        |               |         |  |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|-------|--------|--------|---------------|---------|--|---------------|
| Maths                                                                                                                                                                                                                                                                                                         | 7                                                                                                                                                                                                                                                         | 3                                                                                                                                                                                                                                                                                  |          |       |              |       |        |        |               |         |  |               |
| Topic                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| 3D shapes, Constructions and Problem Solving                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Content (Intent)                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Prior Learning (Topic)                                                                                                                                                                                                                                                                                        | Equations; Data; Probability; Transformations; Graphs & Sequences                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| <ul style="list-style-type: none"><li>Geometric properties of 3D shapes</li><li>Constructions, Plans and Elevations</li><li>Problem-solving</li></ul>                                                                                                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Future Learning (Topic) Y8 Scheme of Work                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| What Knowledge and Skills will be taught (Implementation)                                                                                                                                                                                                                                                     | Content (Intent)                                                                                                                                                                                                                                          | How will your understanding be assessed & recorded (Impact)                                                                                                                                                                                                                        |          |       |              |       |        |        |               |         |  |               |
| <ul style="list-style-type: none"><li>Volume and surface Area</li><li>Drawing Nets and Using Isometric Paper</li><li>Using a protractor and compasses for constructions</li><li>Use of bearings</li><li>Using scale factors for drawings</li></ul>                                                            |                                                                                                                                                                                                                                                           | <u>Ongoing Assessment</u> <ul style="list-style-type: none"><li>Q&amp;A in plenary</li><li>Mini-whiteboards</li><li>Self and Peer assessment</li><li>1 written homework per fortnight</li><li>1 online homework per fortnight</li><li>Feedback and Challenge Time (FACT)</li></ul> |          |       |              |       |        |        |               |         |  |               |
| <ul style="list-style-type: none"><li>Real-life problems will be solved using understanding of topics studied throughout the year</li></ul>                                                                                                                                                                   |                                                                                                                                                                                                                                                           | <u>Formal Assessment</u> <ul style="list-style-type: none"><li>June – end of year exam</li></ul>                                                                                                                                                                                   |          |       |              |       |        |        |               |         |  |               |
| How can parents help at home?                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Help to learn ‘need-to-know’ formulas – in back of orange books<br>Practise times tables on a regular basis – Pixl times table App                                                                                                                                                                            |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Helpful further reading/discussion (including Reading and Vocabulary Lists)                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| <b>Reading</b><br>Direct to the following websites (logon ids will be in the front of the orange maths book);<br><a href="http://www.mymaths.co.uk">www.mymaths.co.uk</a><br><a href="http://vle.mathswatch.co.uk">vle.mathswatch.co.uk</a><br><a href="http://www.mathsgenie.co.uk">www.mathsgenie.co.uk</a> | <b>Vocabulary Lists</b> <table><tr><td>Vertices</td><td>Edges</td></tr><tr><td>Surface Area</td><td>Faces</td></tr><tr><td>Volume</td><td>Prisms</td></tr><tr><td>Perpendicular</td><td>Cuboids</td></tr><tr><td></td><td>Constructions</td></tr></table> |                                                                                                                                                                                                                                                                                    | Vertices | Edges | Surface Area | Faces | Volume | Prisms | Perpendicular | Cuboids |  | Constructions |
| Vertices                                                                                                                                                                                                                                                                                                      | Edges                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Surface Area                                                                                                                                                                                                                                                                                                  | Faces                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Volume                                                                                                                                                                                                                                                                                                        | Prisms                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
| Perpendicular                                                                                                                                                                                                                                                                                                 | Cuboids                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |
|                                                                                                                                                                                                                                                                                                               | Constructions                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                    |          |       |              |       |        |        |               |         |  |               |