

# APSC

## Continuity of Learning

### Year 9 – Maths

| WB                     | Lesson                       | Key content  | Online lesson link  |
|------------------------|------------------------------|--|---|
| 13 <sup>th</sup> April | Interior and exterior angles | <p>To understand</p> <ul style="list-style-type: none"> <li>- Interior and exterior angles, angle sums</li> <li>- Understand a proof that the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices</li> </ul> <p>Explain why some polygons fit together and others do not</p> | <p>U447, U390, U730, U628, U732, U329, M985, U427</p> <p>Set 1: Level 5<br/>Set 2: Level 4<br/>Set 3&amp;4: Level 3<br/>Set 5: Level 2<br/>Set 6: Level 1</p> |
| 20 <sup>th</sup> April | Interior and exterior angles | <p>To understand</p> <ul style="list-style-type: none"> <li>- Interior and exterior angles, angle sums</li> <li>- Understand a proof that the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices</li> </ul> <p>Explain why some polygons fit together and others do not</p> | <p>U447, U390, U730, U628, U732, U329, M985, U427</p> <p>Set 1: Level 5<br/>Set 2: Level 4<br/>Set 3&amp;4: Level 3<br/>Set 5: Level 2<br/>Set 6: Level 1</p> |
| 27 <sup>th</sup> April | Angles on parallel lines     | <p>To understand</p> <ul style="list-style-type: none"> <li>- Alternate and corresponding angles on parallel lines</li> <li>- Solve missing angle problems, giving reasons for answers</li> </ul>  | <p>U826, U655</p> <p>Set 1: Level 5<br/>Set 2: Level 4<br/>Set 3&amp;4: Level 3<br/>Set 5: Level 2<br/>Set 6: Level 1</p>                                     |
| 4 <sup>th</sup> May    | Basic Vectors                | <p>To be able to</p> <ul style="list-style-type: none"> <li>- Describe translations as 2D vectors</li> </ul> <p>Translate a given shape by a vector</p>  | <p>U196, U903, U564, U632, U660</p> <p>Set 1: Level 5<br/>Set 2: Level 4<br/>Set 3&amp;4: Level 3<br/>Set 5: Level 2<br/>Set 6: Level 1</p>                   |
| 11 <sup>th</sup> May   | Transformations              | <ul style="list-style-type: none"> <li>-Translations</li> <li>-Rotations</li> <li>-Reflections</li> <li>-Enlargements</li> </ul>   | <p>U196, U799, U696, U519</p> <p>Set 1: Level 5<br/>Set 2: Level 4<br/>Set 3&amp;4: Level 3<br/>Set 5: Level 2<br/>Set 6: Level 1</p>                         |

| 25 <sup>th</sup> May  | Half-term          |  |  |
|-----------------------|--------------------|--|--|
| 1 <sup>st</sup> June  | Plans & Elevations | <ul style="list-style-type: none"> <li>-Identify properties of the faces, surfaces, edges and vertices of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres</li> <li>-Draw sketches of 3D shapes</li> <li>-Interpret the plans and elevations of 3D shapes</li> </ul> | U743<br><br>Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1   |
| 8 <sup>th</sup> June  | Circles            | <ul style="list-style-type: none"> <li>- Circle definitions - centre, radius, chord, diameter, circumference</li> <li>- To calculate with area and circumference of circles</li> </ul>   | U767, U604, U950, U221, U373<br><br>Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1                         |
| 15 <sup>th</sup> June | Circles            | <ul style="list-style-type: none"> <li>- Circle definitions - centre, radius, chord, diameter, circumference</li> <li>- To calculate with area and circumference of circles</li> </ul>   | U767, U604, U950, U221, U373<br><br>Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1                         |
| 22 <sup>nd</sup> June | Surface Area       | <ul style="list-style-type: none"> <li>- Find the surface area of prisms, spheres, pyramids and cones</li> <li>- Sketch nets of cuboids and prisms</li> </ul>  | U929, U259, U464, U761, U781, U523, U893, U334, U561<br><br>Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1 |
| 29 <sup>th</sup> June | Surface Area       | <ul style="list-style-type: none"> <li>- Find the surface area of prisms, spheres, pyramids and cones</li> <li>- Sketch nets of cuboids and prisms</li> </ul>  | U929, U259, U464, U761, U781, U523, U893, U334, U561<br><br>Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1 |
| 6 <sup>th</sup> July  | Revision           | Percentages: U554, U349, U773, U671, U286, U278, U533<br><br>Proportion: U721, U610, U357, U640, U407, U364, U138, U238<br><br>Probability: U408, U510, U683, U166, U104,  | Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1   |
| 13 <sup>th</sup> July | Revision           | U476, U748, U296, U280, U580<br><br>Inequalities: U759, U509, U738, U145<br><br>Pythagoras: U851, U385, U541   | Set 1: Level 5<br>Set 2: Level 4<br>Set 3&4: Level 3<br>Set 5: Level 2<br>Set 6: Level 1   |

20<sup>th</sup> July

**Summer Holidays**