

|                   | <b>Term 1: Sept –Dec Content</b>   | <b>Term 2: Jan-April Content</b>   | <b>Term 3: April - July Content</b>  | <b>Desired end of year outcomes</b>  |
|-------------------|--|--|--|--|
| <b>Year 10</b>    | <p><i>The Astronomy options group will follow a course based on the Edexcel GCSE in Astronomy and will complete the following Y10 topics:</i></p> <ul style="list-style-type: none"> <li>• The Earth's Structure</li> <li>• Latitude and longitude</li> <li>• The Earth's atmosphere</li> <li>• The night sky</li> <li>• Stars and constellations</li> <li>• The celestial sphere</li> <li>• coordinate systems</li> <li>• Diurnal motion</li> <li>• Circumpolar stars</li> <li>• Practical observing</li> <li>• Surface features of the Moon</li> <li>• The moon's orbit</li> </ul> | <p><i>The Astronomy options group will follow a course based on the Edexcel GCSE in Astronomy and will complete the following Y10 topics:</i></p> <ul style="list-style-type: none"> <li>• Exploration of the Moon</li> <li>• Origin of the Moon</li> <li>• Planets and dwarf planets</li> <li>• Comets</li> <li>• Meteoroids and meteorites</li> <li>• The size of the Solar System</li> <li>• Optical telescopes 1</li> <li>• Optical telescopes 2</li> <li>• Space probes</li> <li>• Observing the planets</li> <li>• The apparent motion of the Sun</li> <li>• Solar and lunar cycles</li> </ul> | <p><i>The Astronomy options group will follow a course based on the Edexcel GCSE in Astronomy and will complete the following Y10 topics:</i></p> <ul style="list-style-type: none"> <li>• Models of the Solar System</li> <li>• Orbits and Kepler's laws 1 &amp; 2</li> <li>• Kepler's third law</li> <li>• Gravitation</li> <li>• Observing the Sun</li> <li>• The Sun's interior</li> <li>• The Sun's atmosphere</li> <li>• The solar wind</li> <li>• Eclipses</li> <li>• Tides and precession</li> <li>• The Earth, Sun and Moon</li> <li>• Diameters and distances</li> </ul> | <p><i>After the 1<sup>st</sup> year of the GCSE Astronomy course the students should :-</i></p> <ul style="list-style-type: none"> <li>▪ <i>Have a deeper understanding of the universe around us.</i></li> <li>▪ <i>Have the hands-on skills required to be able to participate in 'stargazing' as a hobby.</i></li> <li>• <i>Begin to become proficient enough to take the GCSE Astronomy exams in y11.</i></li> </ul> |
|                   |  |  |  | <b>Key Contact Name &amp; Email</b>  |
| <b>Assessment</b> | <ul style="list-style-type: none"> <li>• Unit tests</li> </ul>   | <ul style="list-style-type: none"> <li>• Unit tests</li> <li>• Required observations</li> </ul>  | <ul style="list-style-type: none"> <li>• Unit tests</li> <li>• Required observations</li> <li>• Exam practice</li> </ul>   | <p>Mr J Larrive<br/>jlarrive@glebe.bromley.sch.uk</p>  |