

**Forces**

<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> I can use diagrams to describe the forces on an object</li> <li><input type="checkbox"/> I can recall and use the equation: gravity force (N) = mass (kg) x gravitational field strength, g (N/kg) to calculate the weight of an object</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can calculate the resultant forces on an object</li> <li><input type="checkbox"/> I can recall and use the equation: <b>work done (J) = force (N) x distance (m)</b> (along the line of action of the force)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can use a graph to describe the relationship between force and extension of a spring</li> <li><input type="checkbox"/> I can rearrange equations involving forces</li> <li><input type="checkbox"/> I can describe all of the forces on objects that are stationary, accelerating, decelerating and moving at constant speed</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can recall and use the equation: <b>moment of a force (Nm) = force (N) x distance (m)</b> (normal to direction of the force)</li> </ul>

**Genetics**

<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> I can order the size of DNA, genes, chromosomes and define each term</li> <li><input type="checkbox"/> I can state the meaning of heredity</li> <li><input type="checkbox"/> I can describe the structure of DNA as a double helix</li> <li><input type="checkbox"/> I can define the term species and population</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can describe the importance of DNA in inheritance</li> <li><input type="checkbox"/> I can describe examples of what individuals within a population would compete for</li> <li><input type="checkbox"/> I can describe what adaptations animals could have in a hot and cold environments</li> <li><input type="checkbox"/> I can identify an example of continuous and discontinuous variation</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can describe the differences in between the terms: variation, population, species, competition, adaptation</li> <li><input type="checkbox"/> I can explain how an adaptation aids an animal's survival in an environment</li> <li><input type="checkbox"/> I can select the most appropriate graph to display data on variation</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> I can explain the role of gene banks</li> <li><input type="checkbox"/> I can describe what biodiversity is and explain how it can be maintained</li> <li><input type="checkbox"/> I can describe the process of natural selection fully</li> <li><input type="checkbox"/> I can predict the probability of inheriting a characteristic</li> </ul>

## Space

<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>
<ul style="list-style-type: none"><li data-bbox="108 224 416 548">□ I can recall and use the equation: <b>gravity force (N)</b> <b>= mass (kg) x gravitational field strength, g (N/kg)</b> to calculate the weight of an object</li> <li data-bbox="108 593 391 728">□ I can describe the parts of our Solar System and their arrangement</li></ul>	<ul style="list-style-type: none"><li data-bbox="454 224 767 358">□ I can describe what the terms day, month and year mean</li> <li data-bbox="454 403 718 459">□ I can define the term 'light year'</li></ul>	<ul style="list-style-type: none"><li data-bbox="805 224 1118 324">□ I can explain how the Earth's tilt leads to different seasons</li> <li data-bbox="805 369 1118 616">□ I can rearrange the equation: <b>gravity force (N)</b> <b>= mass (kg) x gravitational field strength, g (N/kg)</b></li></ul>	<ul style="list-style-type: none"><li data-bbox="1157 224 1469 392">□ Predict how the size of a planet and its distance from a star would affect its characteristics.</li></ul>