

Year 11 Physics student work sample – Grade B

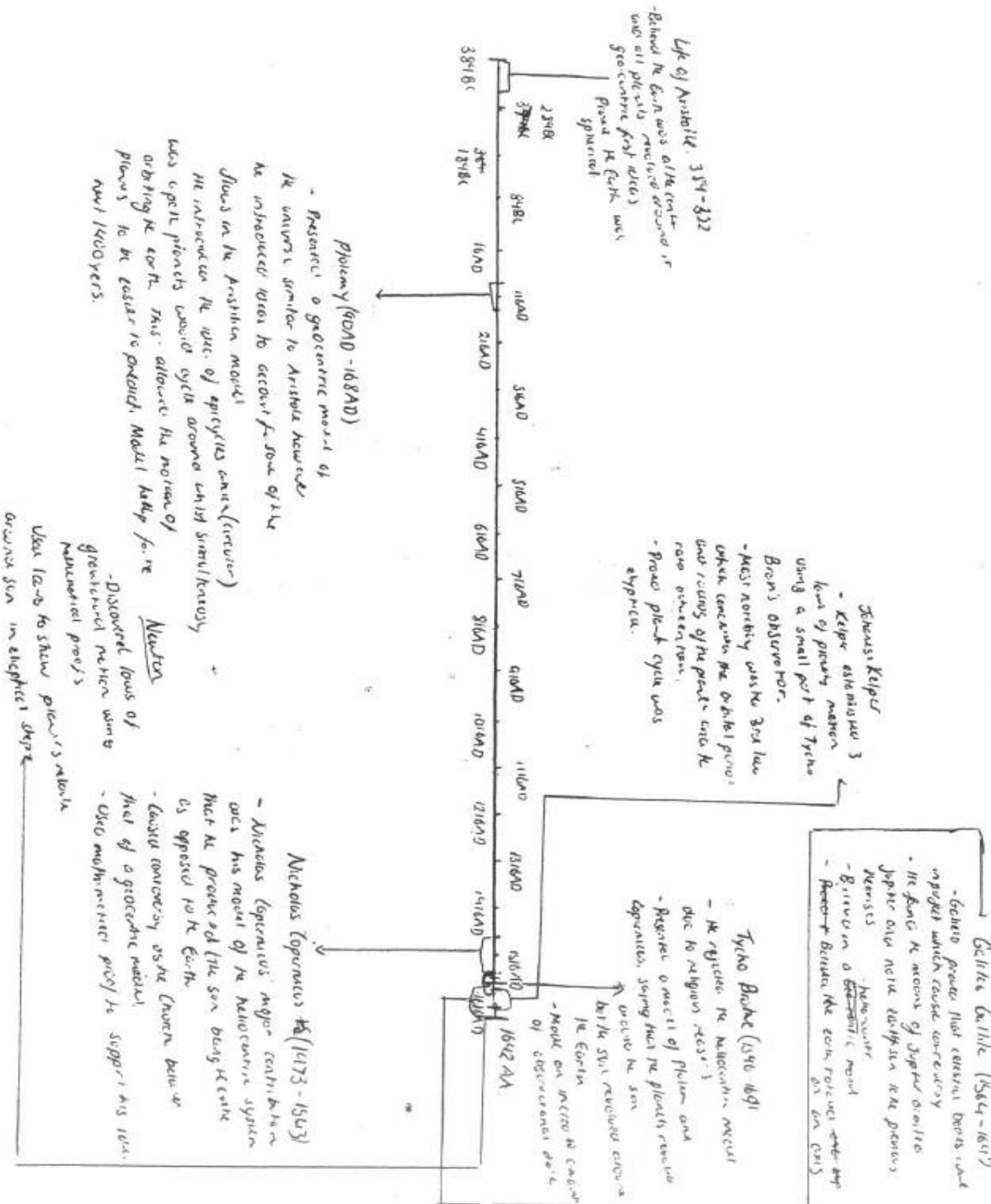
Models of the universe

Models of the Universe once ideas have changed. Aristotle...
 with the geocentric model. At the time, from Aristotle on...
 Newton in 1642 AD. In the early days of Astronomy, there...
 was no technology available. Thus all observations made...
 models of the universe were purely based off of observation...
 Aristotle proposed the earth was spherical due to his...
 of lunar eclipses as well as comets. Ptolemy...
 ship sailing over a horizon watching as the mast falls...
 as well as observation of the stars. Astronomers...
 Ptolemy's model off of philosophy. Aristotle...
 as to process. Ptolemy's model...
 was based off of his principal. Ptolemy...
 upon the theory of Aristotle...
 theory and model it with his observations...
 Tycho Brahe was known for his extremely...
 which he used a clock to make...
 these observations were with his...
 laws of planetary motion. His...
 used to calculate the angular...
 But due to his predecessors...
 eye can see. Tycho's device...
 observations data he...
 of the universe...
 the use of telescopes allowed...
 observe the universe. Galileo...
 with the invention of the telescope...
 it was significantly improving...
 With this he discovered the...
 they orbit around the planet...
 models of the universe...
 the moon like no one had...
 we thought of the universe...
 universe has become... technology we use to discover it.

Demonstrates a thorough knowledge of relevant scientific ideas and outlines information and concepts in a logical sequence

Describes Galileo's use of the telescope to make observations but does not make the link between these observations and the heliocentric model

Response could have been strengthened by the inclusion of Newton



The student develops an appropriate scale and clearly communicates the key elements and includes relevant information for each model

The response would be enhanced by the inclusion of the life span of each relevant scientist

Grade Commentary

Lindsay demonstrates a thorough knowledge and understanding of how advances in technology contributed to the development of models of the solar system. The response would be enhanced by a clarification of the relationship between evidence and the development of models.

Lindsay's response demonstrates characteristics of work typically produced by a student performing at a grade B standard.