

PROJECT 3 GRADING RUBRIC

Points will be assigned to each project according to the following rubric. Your score on the project will be the percentage of points you receive, out of the maximum possible number of points (excluding the bonus points).

Rotational Period of Celestial Sphere

- 1 point for the correct value (to one decimal place)
- 1 point for explanation of how the value was determined

Solar Period

- 1 point for the correct value (to one decimal place)
- 1 point for explanation of how the value was determined

Deferent Period

- 1 point for the correct value for EACH planet (to one decimal place)
- 1 point for explanation of how the value was determined

Epicycle Period

- 1 point for the correct value for EACH planet (to one decimal place)
- 1 point for explanation of how the value was determined

Size Ratio

- 1 point for the correct value for EACH planet (to two decimal places)
- 1 point for explanation of how the value was determined for EACH planet

Diagram

- 1 point for the Sun's orbit + 1 point for indicating direction of motion
- 1 point for the deferent + 1 point for indicating direction of motion for EACH planet
- 1 point for the epicycle + 1 point for indicating direction of motion for EACH planet
- 1 point for proper size ratio for EACH planet
- 1 point for no overlap
- 1 point for showing location of Sun
- 1 point for indicating a location consistent with Ptolemaic principles for EACH planet
- 1 point for careful, neat drawing (note that if the drawing is very sloppy you may lose points on some of the items above because I won't be able to tell if you have done them correctly)
- Bonus: 1 point for tightly packed spheres

Description of Motions

- 1 point for description of the Sun's motion
- 2 points for description of EACH planet's motion

Explanation of Ordering

- 1 point for explaining the ordering of the planets in the diagram
- 1 point for explaining whether or not other orderings could be used

Grammar and Spelling (up to 2 points)

- 2** Any errors in grammar or spelling are minor and the paper is easy to read.
- 1** There are several grammatical errors, making the paper somewhat difficult to read.
- 0** The paper is filled with errors in spelling and grammar, to the extent that it is difficult to understand what the author is trying to communicate.