



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10 COURSE NAME: Earth and Space
MEASUREMENT TOPIC: Evaluate Motion Within the Universe

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">● Obtain, evaluate, and communicate information about the structure and motion of components of the universe and solar system.● Use mathematics to explain how solar intensity and the tilt of the Earth's axis impact the distribution of sunlight on the Earth's surface, including zenith angle, solar angle, and surface area.
2	The student can: <ul style="list-style-type: none">● Use mathematics and computational thinking to predict the motion of natural and man-made objects in the solar system, using Kepler's laws, Newton's laws of motion, and Newton's gravitational laws.● Explain the relationships between the properties of light and distances in the solar system and universe.● Investigate and communicate major properties of bodies in the solar system and the zones they inhabit.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: