

Big ideas

- Scientific discovery: What key evidence rejected the hypothesis for new moons orbiting Uranus?
- What are the main objects and structures in the universe? In what way are we related to these objects or structures?
- What motions of objects in the sky are observable by the naked eye, and what model explains each?
- Kepler's Laws of planetary motion
- Newton's 1st & 2nd Laws
- A perfect absorber of light also emits thermal radiation, which depends only on its area and temperature.
- More to come

Not so big ideas

- How did Ptolemy explain retrograde motion of the planets and night and day?
- How did Galileo refute Ptolemy's model?
- What evidence did Newton use to find the law of gravity?
- How did Newton explain Kepler's 2nd & 3rd Laws?
- Wavelength, frequency, and speed are properties of light. Photons are quanta of light having energy and momentum.
- More to come