

The Sun and Its Energy

Monica Cohen

Synopsis

This unit is intended for high school students studying the anatomy of the sun and how energy relates. The unit challenges students to model the solar layers and explain energy generation and transfer through the layers. Within the unit, students will study the anatomy and composition of the sun, the generation of energy through nuclear reactions, the transfer of energy as electromagnetic radiation, the observation of energy by use of spectroscopy, and how the energy changes through the life of a star. Students utilize technology to receive content knowledge and graphic organizers to manage information. Activities include labs with analysis questions, written responses based upon a rubric, whole class review activities, and individual formative assessments for instructor feedback.