KEY LEARNING, ENDURING UNDERSTANDING, ETC.

NGSS Standard HS-ESS1-3: Communicate scientific ideas about the way stars, over their life cycle, produce elements.

ESSENTIAL QUESTION(S) for the UNIT

How do stars produce elements throughout their life cycle?

CONCEPT A	CONCEPT B	CONCEPT C
Fission vs. Fusion	Star Life Cycles	Star Composition
ESSENTIAL QUESTIONS A	ESSENTIAL QUESTIONS B	ESSENTIAL QUESTIONS C
What are the similarities and differences of fusion and fission? How is nuclear fusion involved with keeping a star alive?	How does mass of a star impact the elements produced?	How can star composition be determined?

VOCABULARY A	VOCABULARY B	VOCABULARY C
Fission Fusion Nucleus	Main Sequence White Dwarf Supernova Supergiant Neutron Star	Spectra Wavelength

ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES

Students will utilize <u>www.explorelearning.com</u> to complete the online Gizmo computer simulation titled "Star Spectra" Additional, optional websites/resources include: www.schoology.com. www.peardeck.com, and Google Docs