

Northwest Territories
High School

Starry Night Lesson Plans
In order of relevance

Grade 9
Unit E: Space Exploration

1. Investigate and describe ways that human understanding of Earth and space has depended on technological development	B1-B2	C1-C4	D1-D3	F1-F3	G1-G3	H1-H3	I1-I3
• Identify different perspectives on the nature of Earth and space, based on culture and science	E1-E4						
• Investigate and illustrate the contributions of technological advances—including optical telescopes, spectral analysis and space travel—to a scientific understanding of space	F1-F3	G1-G3	H1-H3	I1-I3			
• Describe, in general terms, the distribution of matter in space (<i>e.g., stars, star systems, galaxies, nebulae</i>)	G1-G3	H1-H3					
• Identify evidence for, and describe characteristics of, bodies that make up the solar system; and compare their characteristics with those of Earth	B1-B2	C1-C4	D1-D3	F1-F3	I2		
• Describe and apply techniques for determining the position and motion of objects in space	E1-E4	G1-G3	I1-I3	H1-H3			
• Investigate predictions about the motion, alignment and collision of bodies in space; and critically examine the evidence on which they are based (<i>eclipses; meteor showers</i>)	A5	B2	C2	D1-D3			
2. Identify problems in developing technologies for space exploration, describe technologies developed for life in space, and explain the scientific principles involved	I1-I3	F1	F2				
3. Describe and interpret the science of optical and radio telescopes, space probes and remote sensing technologies	I1-I3	F1-F3	G1-G3	H1-H3			
4. Identify issues and opportunities arising from the application of space technology, identify alternatives involved, and analyze implications	I1-I3	F2	D1-D3				