

**Prince Edward Island**  
High School

**Starry Night Lesson Plans**  
*In order of relevance*

**Grade 9**

**The Beginnings of the Solar System**

Describe and explain the apparent motion of celestial bodies.	A1-A5	C2	E1-E4	I2		
Describe theories on the formation of the solar system.	F3	B1-B2	C1-C4	D1-D3	I2	

**Composition and Characteristics of the Solar System**

Describe the composition and characteristics of the following components of the solar system:	C1-C3	D1-D3	I2			
Terrestrial and gas planets and Pluto	C1-C4	I2				
Periodicity of comets	D2	D3				
Asteroids and meteors	D1	D3				
Explain the need for new evidence in order to continually test existing theories about the composition and origin of our solar system and galaxies.	F3	B1-B2	C1-C4	D1-D3	G1-G3	H1-H3 I1-I3
Describe the effects of solar phenomena on Earth.	F1	F2				
Design and describe a model space station on the basis of what they have learned about the sun's influences on Earth.	I1-I2	F1-F2				

**Composition and Characteristics of the Universe**

Describe theories on the origin and evolution of the universe:	H1-H3	I1-I3				
Big bang theory	H1-H3	I1-I3				
Oscillating theory	H1-H3	I1-I3				
Describe and classify the major components of the universe:	G1-G3	H1-H3				
Nebulae	G1-G3	H1-H3				
Galaxies	G1-G3	H1-H3				
Giant and dwarf stars	G1-G3	H1-H3				
Quasars and black holes	G1-G3	H1-H3				
Calculate the travel time to a distant star at a given speed:	G1					
Define and explain a light year	G1					
Explain how data from technology contributes to our knowledge of the universe.	F1-F3	G1-G3	H1-H3	I1-I3	C4	E4
Compare various stars relative to our solar system.	G2					
Identify new questions and problems that arise from the study of space exploration.	F1-F3	G1-G3	H1-H3	I1-I3	C4	E4
Describe the science underlying three technologies designed to explore space.	F1-F3	G1-G3	H1-H3	I1-I3		