

Nova Scotia
High School

Starry Night Lesson Plans
In order of relevance

Grade 9

The Beginnings of the Solar System

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|--|-------|-------|-------|-------|----|--|
| 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

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|--|-------|-------|-------|-------|-------|-------------|
| Describe the composition and characteristics of the following components of the solar system: | C1-C4 | 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 | | | | |

Composition and Characteristics of the Universe

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|---|-------|-------|-------|-------|--|--|
| Describe theories on the origin and evolution of the universe | H1-H3 | I3 | | | | |
| Big bang theory | H1-H3 | I3 | | | | |
| Oscillating theory | H1-H3 | 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 | | | | |
| 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 | | |
| Compare various stars relative to our solar system | G2 | | | | | |
| Identify new questions and problems that arise from the study of space exploration. | C4 | I2 | | | | |
| Describe the science underlying three technologies designed to explore space | F1-F3 | G1-G3 | H1-H3 | I1-I3 | | |