

## Canadian Provincial Correlated Learning Outcomes

### Prince Edward Island

#### Grade 9

#### The Beginnings of the Solar System

Describe and explain the apparent motion of celestial bodies.

#### Starry Night Lesson Plans

*In order of relevance*

A1 A2 A3 A4 A5 C2 E1 E2 E3

Describe theories on the formation of the Solar System.

F3 B1 B2

#### Composition and Characteristics of the Solar System

Describe the composition and characteristics of the following components of the Solar System:

- Terrestrial and gas planets and Pluto
- Periodicity of comets
- Asteroids and Meteors

C1 C2 C3 D1 D2 D3  
D2  
D1 D3

Explain the need for new evidence in order to continually test existing theories about the composition an origin of our Solar System and galaxies.

F3 B1 B2 C1 C2 C3 D1 D2 D3

Describe the effects of solar phenomena on Earth.

F1 F2

#### Composition and Characteristics of the Universe

Describe theories on the origin and evolution of the Universe.

- Big Bang Theory
- Oscillating Theory

H1 H2 H3 I1

Describe and classify the major components of the Universe.

- Nebulae
- Galaxies
- Giant and dwarf stars
- Quasars and black holes

G1 G2 G3 H1 H2 H3

Define and explain a light year.

G1

Explain how data from technology contributes to our knowledge of the Universe.

F1 F2 F3 G1 G2 H1 H2 H3 I1 I2

Compare various stars relative to our Solar System.

G2

Describe the science underlying three technologies designed to explore space.

F1-F3 G1-G2 H1-H3 I1-I2