 **New Life Christian Academy**

**SCIENCE - Grade 4th - Teacher Capellán**

**Weekly Lesson Plan (*Plan de Lección- Semana 16-18 - Marzo 2020*)**

**Contents (Contenidos) - The Universe – The Life of a Star and The Constellations**

**\* The Life of a Super Star:** (Main sequence / Red Supergiant / Supernova / Black Hole and Pulsar).

**\* The Life of an Average Star:** (Main sequence / Red Giant / Nebula / White Dwarf / Fast and Flashy versus Slow and Dim).

**\* Constellations:** (What are Constellations? / Why did People make Constellations? / Constellations of the Zodiac).

**Main Ideas:**

* A star’s life time is the period in which it actively generates energy.
* The main sequence phase is the most stable period of a star’s total lifetime.
* During the main sequence the hydrogen (the most abundant element) is fused into helium in the star’s core.
* Constellations: are imaginary games of “connect the dots” played on the night sky.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=2ahUKEwjDkOqJ-qzoAhWBdt8KHcnDB_AQFjAAegQIAxAB&url=https%3A%2F%2Fwww.schoolsobservatory.org%2Flearn%2Fastro%2Fstars%2Fcycle&usg=AOvVaw0Amh3eBBv6O7QpugNITY0P> / Life Cycle of a Star / National Schools Observatory.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=24&cad=rja&uact=8&ved=2ahUKEwjDkOqJ-qzoAhWBdt8KHcnDB_AQFjAXegQIBRAB&url=https%3A%2F%2Fwww.siyavula.com%2Fread%2Fscience%2Fgrade-9%2Fbirth%2C-life-and-death-of-a-star%2F27-birth%2C-life-and-death-of-a-star%3Fid%3Dtoc-id-2&usg=AOvVaw3gvIYxNfVjn6XUf_cjj2J0> / Life of a Star / Birth, Life and Death of a Star.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&cad=rja&uact=8&ved=2ahUKEwjWwqS1_qzoAhWjl-AKHXALB3kQFjACegQIBRAB&url=https%3A%2F%2Fastronomy.com%2Fobserving%2Fastro-for-kids%2F2008%2F03%2Flearn-the-constellations&usg=AOvVaw1IdZrEYO9zcQ49P0FX0ehB&cshid=1584842635077878> / Learn the Constellations / Astronomy.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&cad=rja&uact=8&ved=2ahUKEwjEgtHH_azoAhVkZN8KHdcPD88QFjADegQIARAB&url=https%3A%2F%2Fstardate.org%2Fnightsky%2Fconstellations&usg=AOvVaw0WnNqw-gDAWp7D1YGRjrBQ> / Constellations Guide.

**YouTube Suggested Videos:**

* <https://www.youtube.com/watch?v=1UGBeedYuF4> / The Life Time of a Star / Astronomic.
* <https://www.youtube.com/watch?v=kts_leUHdpM> / Stars - Introduction to Star Birth, Life and Death.
* <https://www.youtube.com/watch?v=QXeEAQtC75g> / The Universe: The Constellations / History.
* <https://www.youtube.com/watch?v=adKrNga8-Qs> / What are Stars and Constellations.
* <https://www.youtube.com/watch?v=1sZ15SUeS9w> / Constellations: Connect the Dots in the Sky.

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**Weekly Lesson Plan (*Plan de Lección- Semanas 23 Marzo - 03 Abril, 2020*)**

**Contents (Contenidos) - The Universe: The Solar System**

**\* The Solar System:** (What is the Solar System? / Leftovers: Asteroids, Comets, and Moons / Planet Types: Terrestrial Planets and Jovian Planets or Gas Giants).

**Main Ideas:**

* Our planetary system is located in an outer spiral arm of the Milky Way galaxy.
* Our solar system consists of our star, the Sun, and everything bound to it by gravity — the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune, dwarf planets such as Pluto, dozens of moons and millions of asteroids, comets and meteoroids.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=15&cad=rja&uact=8&ved=2ahUKEwitqsrfhK3oAhUhm-AKHdlMD_0QFjAOegQIAhAB&url=https%3A%2F%2Fwww.britannica.com%2Fscience%2Fsolar-system&usg=AOvVaw2tzQHS1va_YON3KXt9jEFd> / Solar System / Definition, Planets, and Facts / Britannica.
* <https://www.google.com.do/url?sa=t&rct=j&q=&esrc=s&source=web&cd=18&cad=rja&uact=8&ved=2ahUKEwjf-8HVha3oAhUCd98KHRAoAbUQFjARegQICRAB&url=https%3A%2F%2Fwww.brainpop.com%2Fscience%2Fspace%2Fsolarsystem%2F&usg=AOvVaw0aI8htupotCJaBdDSACmWL> / Solar System / Brain POP.

**YouTube Suggested Videos:**

* <https://www.youtube.com/watch?v=Qd6nLM2QlWw> / Exploring our Solar System / Planets and Space for Kids.
* <https://www.youtube.com/watch?v=w36yxLgwUOc> / Solar System / The Dr. Binocs Show / Best Learning Videos for Kids / Peekaboo Kids.
* <https://www.youtube.com/watch?v=gNlxqgdvumw> / BBC Documentary 2017 / The Complete Cosmo Secrets of the Solar System HD.
* <https://www.youtube.com/watch?v=IRZYMimUET8> / Formation of the Solar System / The Dr. Binocs Show / Learning Videos for Kids.
* <https://www.youtube.com/watch?v=02wrLS-ue1Q> / Comets and Asteroids.
* <https://www.youtube.com/watch?v=v36LWpEqATI> / Asteroids, Comets and Meteors for Kids
* <https://www.youtube.com/watch?v=H1D7FaF8NZ4> / Meteors, Meteorites and Asteroids Documentary - History Channel.
* <https://www.youtube.com/watch?v=WlvGuzt5ZsU> / Terrestrial Planets / The Solar System for Kids.
* <https://www.youtube.com/watch?v=FIo_EQLffWE> / Origin: The Terrestrial Planets.
* <https://www.youtube.com/watch?v=SeC22-94PMw> / Explore the Solar System: The Gas Giants.
* <https://www.youtube.com/watch?v=x_twkeXra2k> / Earth Science: Lecture 33 - The Jovian Planets and Small Solar System Bodies.

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***Semana Santa - Abril 6 – 10, 2020***