✏️
Edit page

CW High School
Earth and Space Systems

1. **Earth, Moon and Sun (16.67%)**

Learning Targets

1.1 I can explain properties of lunar structures and their formation.

Learning Target	Descriptor	Definition
4	Proficient	I can explain properties of lunar structures and their formation.
3	Developing	I can explain the formation of lunar structures
2	Basic	I can identify lunar structures
1	Minimal	I can define various lunar structures
0	No Evidence	No evidence shown.

1.2 I can create a model of the phases of the moon

Learning Target	Descriptor	Definition
4	Proficient	I can create a model of the phases of the moon
3	Developing	I can diagram movement and illumination of lunar cycle
2	Basic	I can explain synchronous rotation
1	Minimal	I can recognize relative position of moon phases
0	No Evidence	No evidence shown.

1.3 I can explain how tides are created.

Learning Target	Descriptor	Definition
4	Proficient	I can explain how tides are created.
3	Developing	I can apply tidal forces to earth moon system
2	Basic	I can draw diagrams of the different tides
1	Minimal	I can recognize the different tides
0	No Evidence	No evidence shown.

1.4 I can distinguish solstices and equinoxes

Learning Target	Descriptor	Definition
4	Proficient	I can distinguish solstices and equinoxes

✏️
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
3	Developing	I can communicate earth tilt to solar events
2	Basic	I can describe direct sunlight effects on seasons
1	Minimal	I can define terms related to solar events
0	No Evidence	No evidence shown.

1.5 I can explain eclipses of the Sun and Moon

Learning Target	Descriptor	Definition
4	Proficient	I can explain eclipses of the Sun and Moon
3	Developing	I can diagram eclipses in the correct positions
2	Basic	I can explain the factors that must happen for an eclipse
1	Minimal	I can define terms for eclipses
0	No Evidence	No evidence shown.

1.6 I can construct a model of how the aurora is produced

Learning Target	Descriptor	Definition
4	Proficient	I can construct a model of how the aurora is produced
3	Developing	I can communicate the creation of light from the solar wind
2	Basic	I can describe the creation of the solar wind
1	Minimal	I can describe magnetosphere
0	No Evidence	No evidence shown.

2. Solar System (16.67%)

Learning Targets

2.1 I can explain how the solar system is formed

Learning Target	Descriptor	Definition
4	Proficient	I can explain how the solar system is formed
3	Developing	I can apply angular momentum to formation

✎
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
2	Basic	I can describe how coalescence and gravity form system
1	Minimal	I can describe planetary nebula
0	No Evidence	No evidence shown.

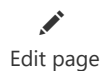**2.2 I can use Kepler's and Newton's laws to explain motions of objects in solar system**

Learning Target	Descriptor	Definition
4	Proficient	I can use Kepler's and Newton's laws to explain motions of objects in solar system
3	Developing	I can apply laws to explain motion of objects
2	Basic	I can describe Keplar's laws
1	Minimal	I can explain universal laws of gravitation
0	No Evidence	No evidence shown.

2.3 I can compare and contrast the characteristics of the inner and outer planets

Learning Target	Descriptor	Definition
4	Proficient	I can compare and contrast the characteristics of the inner and outer planets
3	Developing	I can communicate unique properties of planets
2	Basic	I can describe characteristics of planets
1	Minimal	I can explain locations of Planets
0	No Evidence	No evidence shown.

2.4 I can distinguish between the planets and dwarf planets

Learning Target	Descriptor	Definition
4	Proficient	I can distinguish between the planets and dwarf planets
3	Developing	I can communicate reasons why dwarf planets are dwarf
2	Basic	I can explain the location of dwarf planets
1	Minimal	I can describe gravity effects on objects less than 500 miles across
0	No Evidence	No evidence shown.

✏️   5   I can determine the structure and behavior of Kuiper Belt and Oort Cloud Objects
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
4	Proficient	I can determine the structure and behavior of Kuiper Belt and Oort Cloud Objects
3	Developing	I can communicate properties of objects
2	Basic	I can describe meteors and comets
1	Minimal	I can describe their location in solar system
0	No Evidence	No evidence shown.

3. Stars (16.67%)

Learning Targets

3.1 I can describe the layers and features of the sun

Learning Target	Descriptor	Definition
4	Proficient	I can describe the layers and features of the sun
3	Developing	I can list properties and temperatures in the layers
2	Basic	I can describe sunspots, flares and solar wind
1	Minimal	I can name the layers of the sun
0	No Evidence	No evidence shown.

3.2 I can explain the process of energy production in the sun.

Learning Target	Descriptor	Definition
4	Proficient	I can explain the process of energy production in the sun.
3	Developing	I can relate fusion and E=MC2
2	Basic	I can explain the equilibrium between gravity and pressure
1	Minimal	I can explain the composition of the sun
0	No Evidence	No evidence shown.

3.3 I can determine how distance between stars is measured

Learning Target	Descriptor	Definition
4	Proficient	I can determine how distance between stars is measured

✏️
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
3	Developing	I can use parallax to determine distance
2	Basic	I can demonstrate how variable stars are used for distance
1	Minimal	I can describe how the Earth/Sun relationship is used to determine distance
0	No Evidence	No evidence shown.

3.4 I can utilize an HR diagram to classify stars

Learning Target	Descriptor	Definition
4	Proficient	I can utilize an HR diagram to classify stars
3	Developing	I can classify star type and star life cycle on diagram
2	Basic	I can relate temperature and luminosity to mass
1	Minimal	I can place stars on HR diagram by mass
0	No Evidence	No evidence shown.

3.5 I can categorize the features of star life cycles based on mass

Learning Target	Descriptor	Definition
4	Proficient	I can categorize the features of star life cycles based on mass
3	Developing	I can diagram the 3 various life paths of a star
2	Basic	I can explain the properties of white dwarfs, neutron stars and black holes
1	Minimal	I can describe the early life cycle of stars and proto-stars
0	No Evidence	No evidence shown.

✏
Edit page

CW High School
Earth and Space Systems

4. **Galaxies (16.67%)**

Learning Targets

4.1 **I can explain how astronomers classify galaxies and how galaxies evolve**

Learning Target	Descriptor	Definition
4	Proficient	I can explain how astronomers classify galaxies and how galaxies evolve
3	Developing	I can draw diagram of how galaxies evolve
2	Basic	I can describe active galactic nucleus
1	Minimal	I can identify galaxy type and shape
0	No Evidence	No evidence shown.

4.2 **I can create a model of a galaxy and describe regions of it**

Learning Target	Descriptor	Definition
4	Proficient	I can create a model of a galaxy and describe regions of it
3	Developing	I can distinguish between population I and II stars
2	Basic	I can label the parts of a galaxy
1	Minimal	I can define regions of a galaxy
0	No Evidence	No evidence shown.

✏️
Edit page

CW High School
Earth and Space Systems

5. Cosmology (16.65%)

Learning Targets

5.1 I can defend the different models of the universe

Learning Target	Descriptor	Definition
4	Proficient	I can defend the different models of the universe
3	Developing	I can differentiate between an open, close or flat universe
2	Basic	I can support the Big Bang Theory with evidence
1	Minimal	I can describe Doppler effect and red/blue shift on universe
0	No Evidence	No evidence shown.

5.2 I can explain the effects of matter and energy in the universe

Learning Target	Descriptor	Definition
4	Proficient	I can explain the effects of matter and energy in the universe
3	Developing	I can explain the effects of dark energy
2	Basic	I can explain the effects of dark matter
1	Minimal	I can communicate the different amounts of energy and mass in universe
0	No Evidence	No evidence shown.

6. Meteorology (16.67%)

Learning Targets

6.1 I can analyse how imbalances in the heating of Earth's Surface create air masses

Learning Target	Descriptor	Definition
4	Proficient	I can analyse how imbalances in the heating of Earth's Surface create air masses
3	Developing	I can decribe how origins of air mass give them different properties
2	Basic	I can locate and label air masses on map
1	Minimal	I can define air masses types
0	No Evidence	No evidence shown.

6.2 I can compare the three major wind systems

✏️
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
4	Proficient	I can compare the three major wind systems
3	Developing	I can describe how convection and rotation of earth create wind systems
2	Basic	I can locate and label wind systems on map
1	Minimal	I can define a major wind system
0	No Evidence	No evidence shown.

6.3 I can distinguish between high and low pressure systems

Learning Target	Descriptor	Definition
4	Proficient	I can distinguish between high and low pressure systems
3	Developing	I can describe the effects of the earth's rotation and convection currents on pressure systems
2	Basic	I can list properties associate with pressure systems
1	Minimal	I can define pressure systems
0	No Evidence	No evidence shown.

6.4 I can draw the four types of fronts and communicate weather associated with them

Learning Target	Descriptor	Definition
4	Proficient	I can draw the four types of fronts and communicate weather associated with them
3	Developing	I can draw and label weather fronts
2	Basic	I can communicate the weather associate with fronts
1	Minimal	I can define weather fronts
0	No Evidence	No evidence shown.

6.5 I can analyze a basic surface weather map

Learning Target	Descriptor	Definition
4	Proficient	I can analyze a basic surface weather map
3	Developing	I can create weather maps from site data
2	Basic	I can label fronts on weather map

✏️
Edit page

CW High School
Earth and Space Systems

Learning Target	Descriptor	Definition
1	Minimal	I can find high and low pressure systems on map
0	No Evidence	No evidence shown.

Submitted on 7/31/2021 by