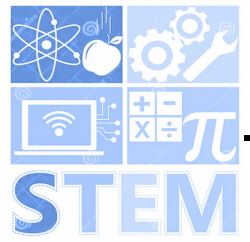


SCIENCE Newsletter



Week of : November 17th to 21st, 2025

4A,B,C,D,E Home Learning

	4A,B,C,D,E Home Learning
Monday	Science Fair Project 2025 due Monday 12/01
Tuesday	<input type="checkbox"/> Create your Powerpoint Presentation
Wednesday	<input type="checkbox"/> Record your presentation video .
Thursday	<input type="checkbox"/> Upload Powerpoint and video presentation on the provided OneDrive link.
Friday	<i>Please refrain from emailing the presentations, as they will not be accepted.</i>

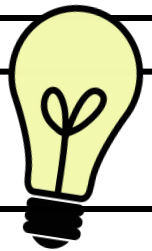
Vocabulary



Topic 2 Lesson 5 - Vocabulary Quizlet



Reminders



- **Topic 1b Unit Assessment Wednesday 11/19**
- **Powerpoint Presentation and Video Upload due Monday, December 1st.**



Earth's Rotation and Revolution and Moon Phases

Quizlet Topic 1 Vocabulary

<https://quizlet.com/833352361/4th-grade-science-topic-1b-flash-cards/?i=5dfbhp&x=1jqt>

Earth's Rotation

Earth rotates on its axis and completes a whole spin in 24 hours.

Earth's rotation is responsible for the day and night.

During this spin, the side of the Earth that faces the Sun has day, and the one that faces away has night.

Earth's Revolution

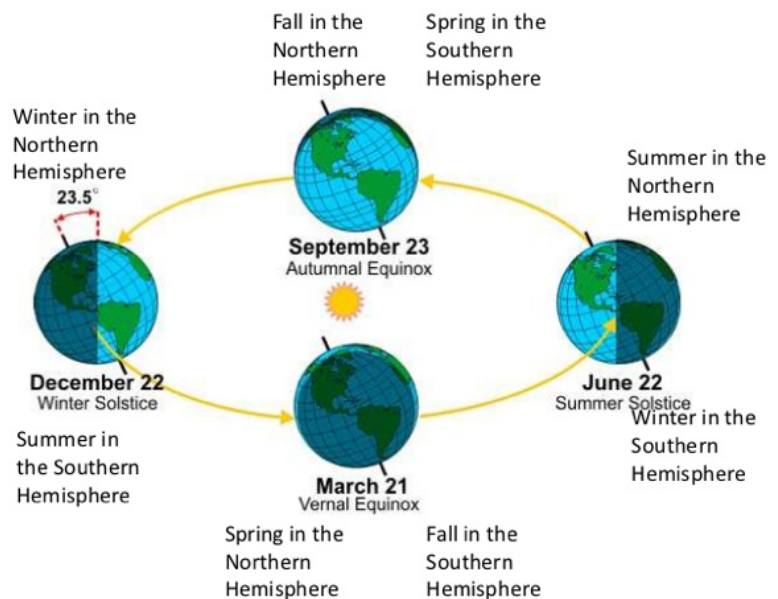
As Earth is rotating around its axis, it is also revolving around the Sun.

It takes 365.1/4 days for Earth to revolve or orbit around the Sun.

As Earth orbits around the Sun, we are experiencing different seasons.

Earth has seasons because of its tilted axis as it travels.

The areas pointing to the sun are experiencing longer days and more sun, so they have summer, while the regions pointing away are receiving less sun, so they have winter. When the Northern Hemisphere has summer, then the Southern has winter and the opposite.



Gravitational Pull

Earth's rotation and revolution are connected to **gravity**, which is a force that pulls objects toward each other. The Sun's gravity is what keeps Earth in its orbit, and Earth's gravity keeps the Moon orbiting around us.

Moon Phases

The Moon does not make its own light—what we see is sunlight reflecting off the Moon. As the Moon orbits Earth, we see different amounts of the lit side. These changing shapes are called **moon phases**.

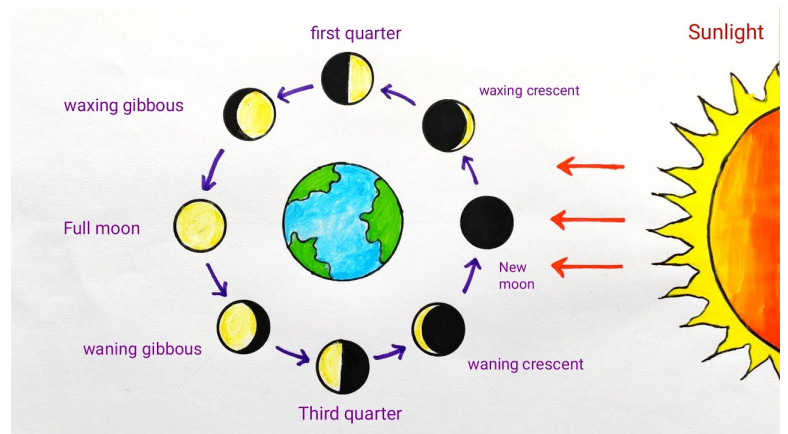
In other words, Moon phases are the different shapes of the lit portion of the moon that we see from the Earth.

There are eight different phases.

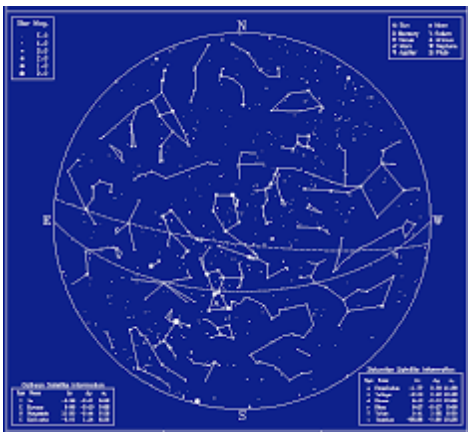
It takes the moon 29.5 days to go through all the phases (lunar month).

Waxing = increasing – getting larger

Waning = decreasing – getting smaller



Constellations



Constellations are groups of stars that form patterns in the night sky.

Ancient people used constellations for navigation and to keep track of seasons. Constellations appear to move across the sky because Earth rotates. The stars in a constellation look close together, but they are actually **very far apart** in space. They only look like a picture because of where Earth is located.

Astronomers around the world agreed on **88 constellations** that cover the entire sky—just like a big map!

We see different constellations during different seasons because Earth revolves around the Sun. Examples: Orion (winter), the Big Dipper (year-round but moves position), and Scorpius (summer).

Space Exploration in Florida

Florida is one of the most important places in the world for space exploration. The Kennedy Space Center, located on the east coast of Florida, is where NASA launches rockets and space missions. Many astronauts have started their journeys to space from Florida.

Because Florida is close to the equator, rockets need less fuel to reach space. This makes Florida an ideal location for launches.

How Space Exploration Helps Florida's Economy and Tourism

- **Jobs:** NASA, SpaceX, Blue Origin, and other companies create thousands of jobs for engineers, scientists, technicians, and support workers.
- **Tourism:** Millions of people visit the Kennedy Space Center every year. Visitors come to learn about space, explore exhibits, and even watch rocket launches.
- **Businesses:** Hotels, restaurants, and local shops earn money from tourists who travel to see launches or visit the Space Center.

Sincerely,

4th grade Science

Ms. Yiouli