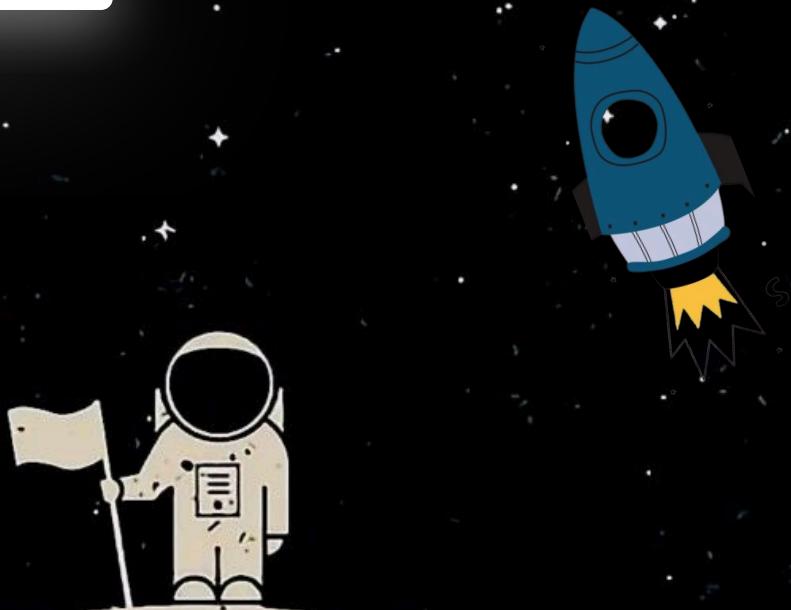


2.

# MOTIONS OF THE EARTH

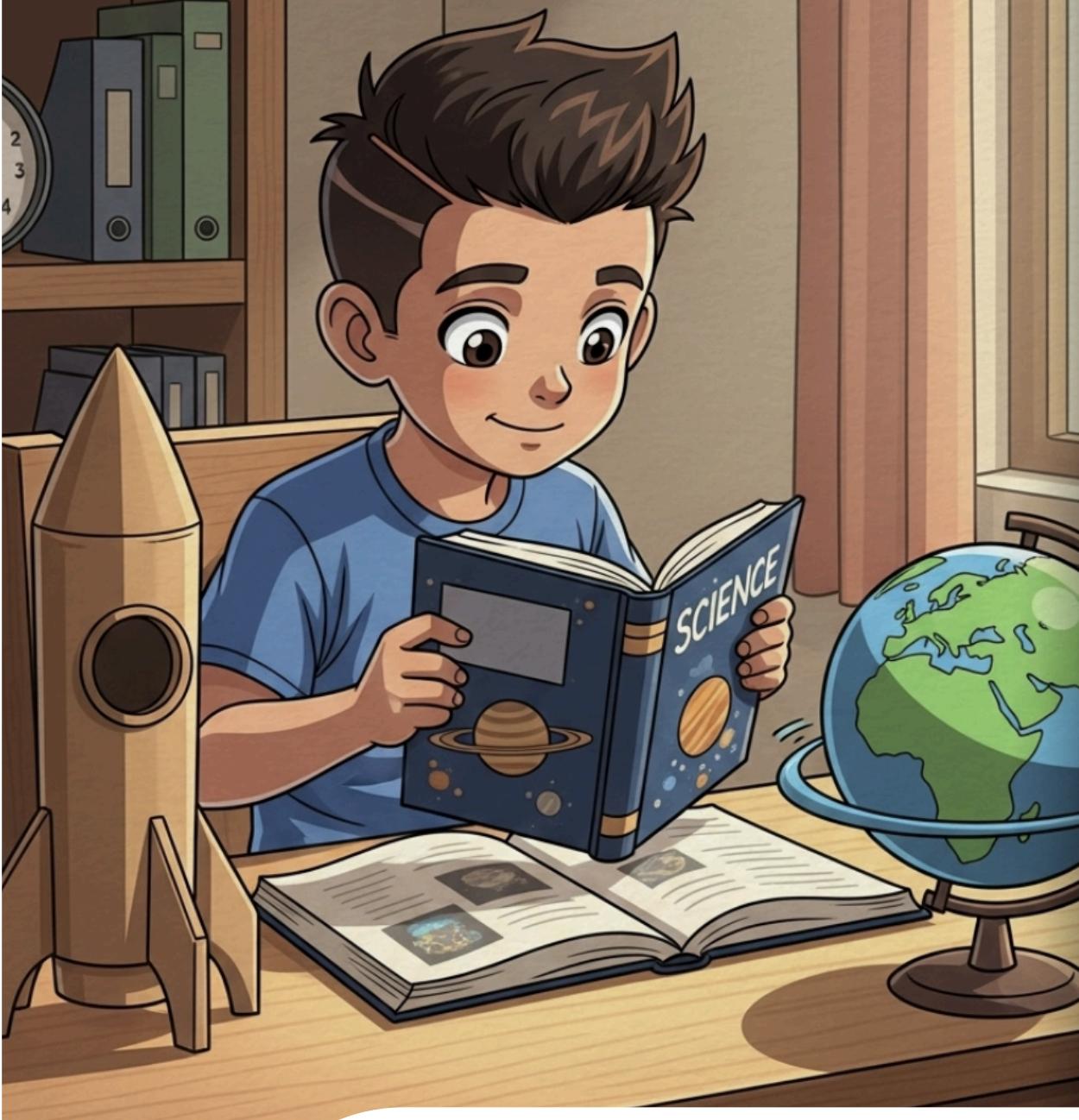
COMICAL WAY OF EXPLORING WORLD



**Aarav:** Mumma, one day I want to go there... to the moon!



**Mother:** You will have to learn more, and one day you will go there. not just for fun, but to learn.



Aarav begins preparing, reading books, building rockets, spinning globes, and chasing his dream.

After a lot of studies,  
some years later...



3

**Aarav:** "Here I come, Moon!  
See Mumma, I have reached the moon."

**Moon:** Welcome, Aarav. I've been waiting for you.





5

**Moon:** Come with me on a journey to explore more..

**Moon** : Do you know what rotation is?



**Moon** : The turning of an object around itself is called '**rotation**', and the imaginary line around which it rotates is called the '**axis of its rotation**'.

**Moon:** This period of time that the earth takes to complete one rotation is called a day.



**Moon:** the day when the Sun is visible and there is light is called daytime and nighttime is when that part of Earth is facing against the sun and the sun is not visible



**Moon:** “One full trip around the Sun takes 365 days and 6 hours—that’s one year!”



**Moon:** "Those extra hours become a full day every 4 years—a leap year!"

**Moon:** “The tilt of Earth gives us seasons a perfect cosmic seesaw!”



Summer



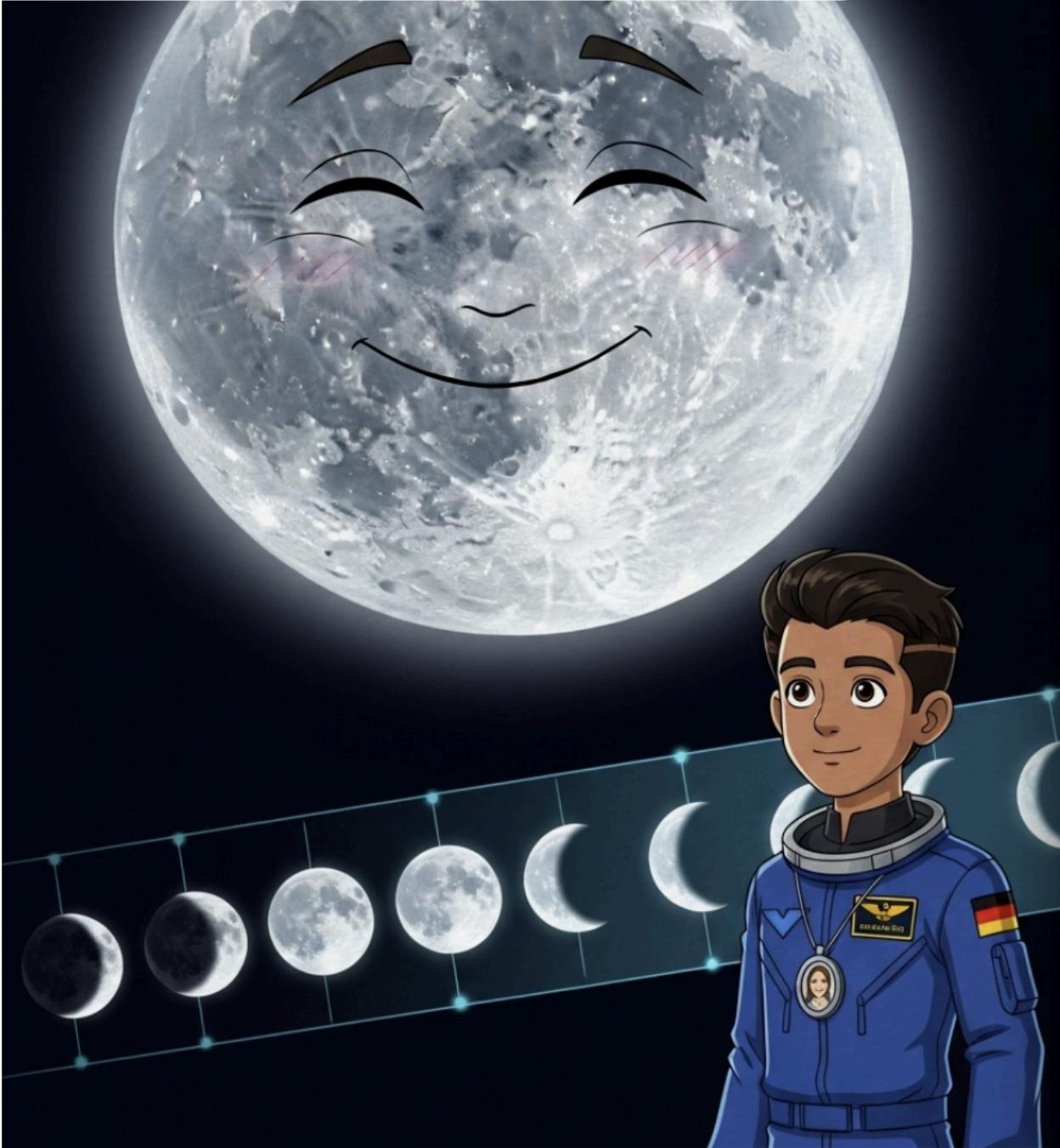
Winter

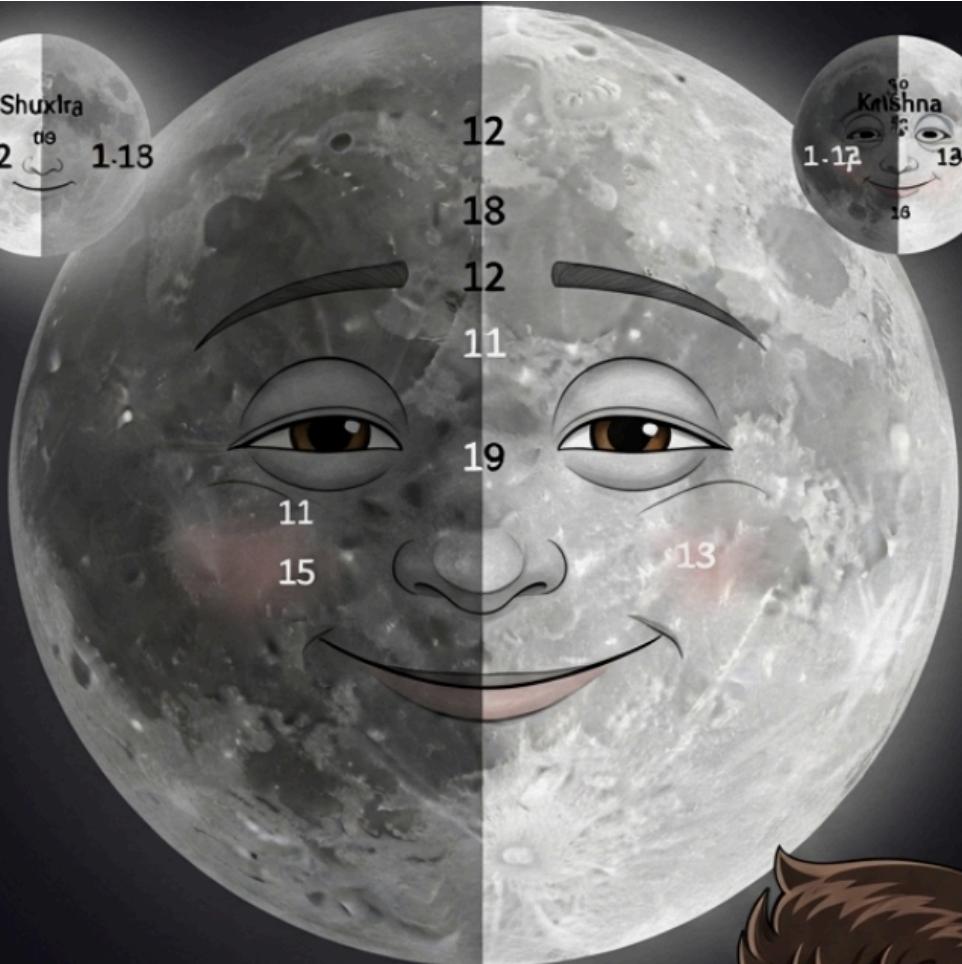
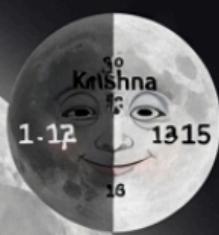


**Moon:** I keep moving around Earth. From new moon to full moon, I slowly show more of my bright side. This is called the **waxing** phase (Shukla Paksha). It takes about **14–15 days**



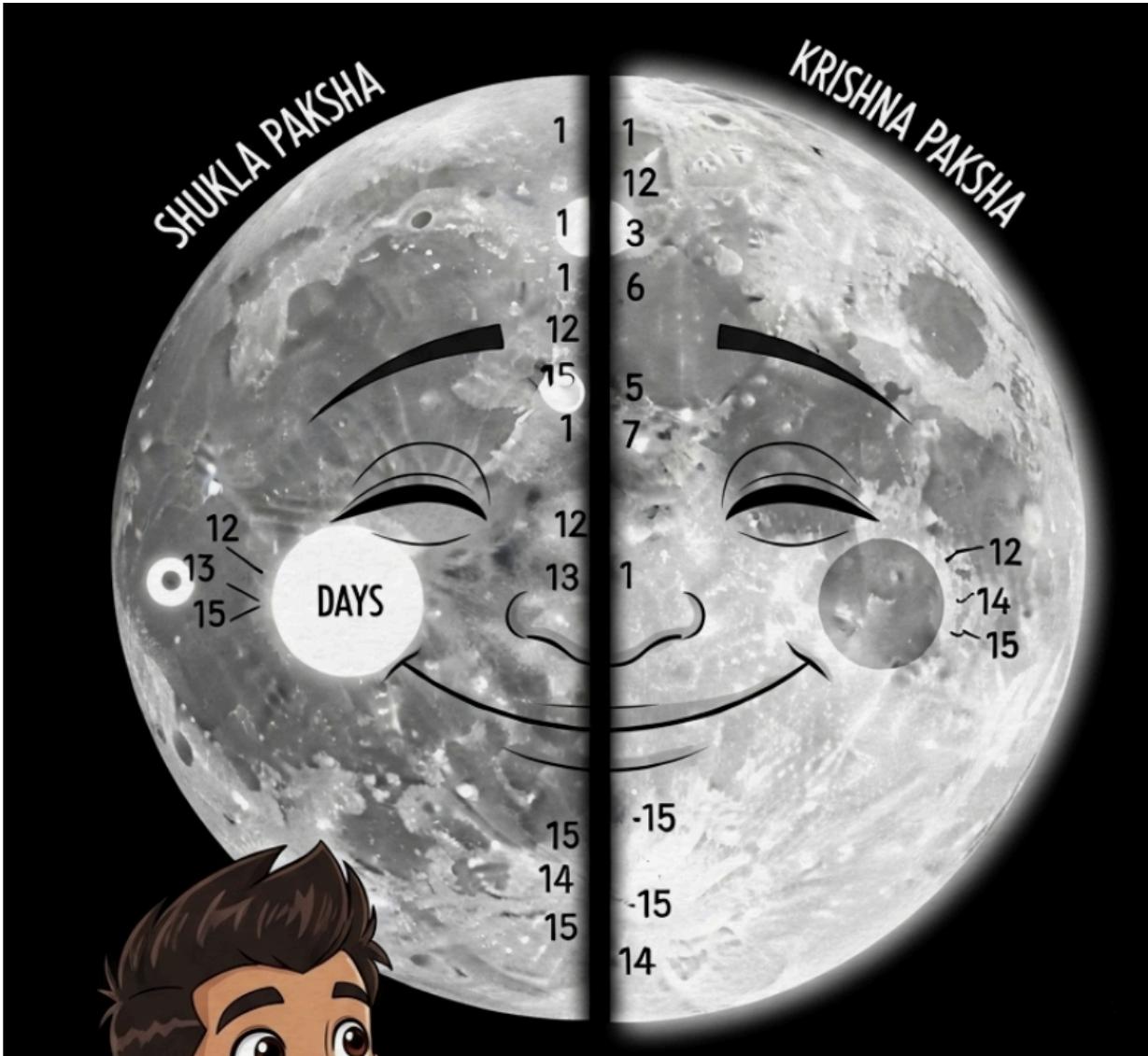
**Moon:** “After the full moon, I start looking smaller. This is the **waning** phase (Krishna Paksha), and it also lasts about **14–15 days** until I become a new moon again”





13

**Moon:** “The time from one new moon to the next is about **28–30 days**. That’s called a **lunar month**.”



**Aarav:** And what is a **Tithi**?



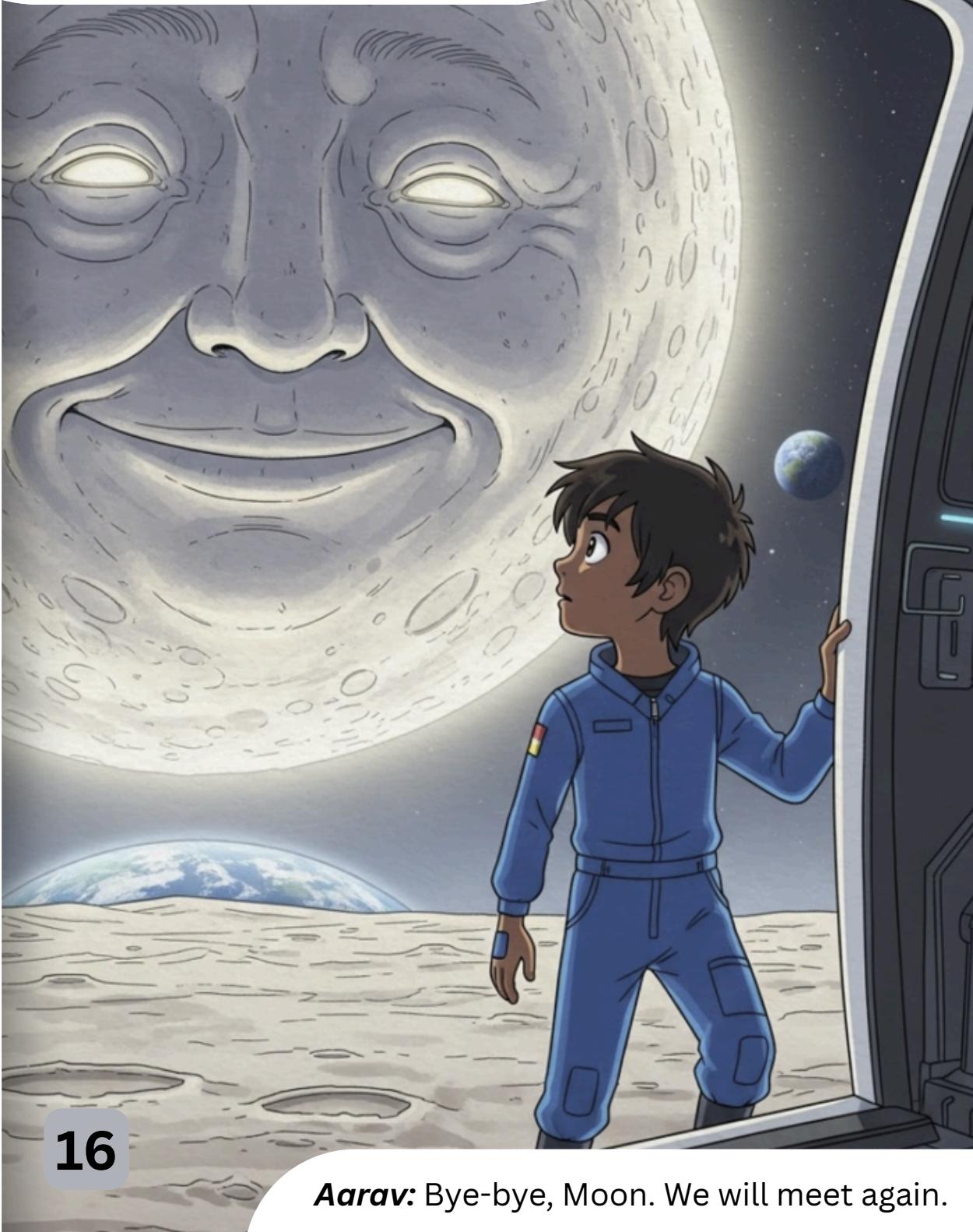
**Moon:** “Each day in this lunar month is called a **tithi**. So every single day of my changing shape has its own tithi.”



15

**Aarav:** Look, Mumma! I have learned everything about the moon now.

**Moon:** "Always remember, Aarav, the universe is our greatest teacher."



# Crossword Puzzles

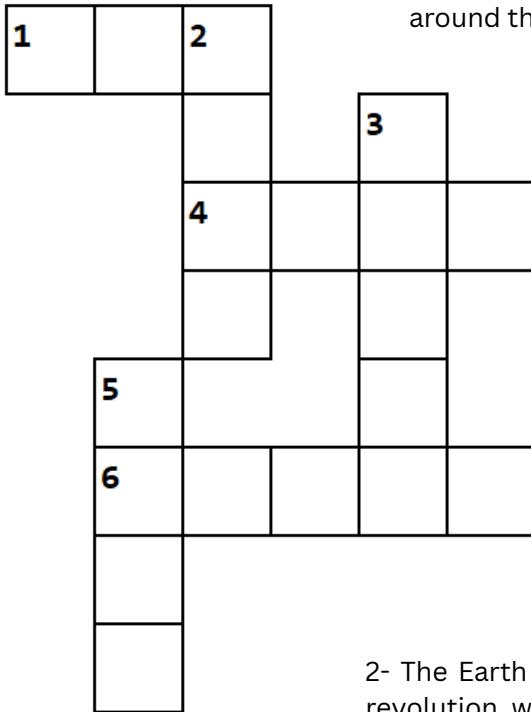


## ACROSS

1- When our side of Earth faces the Sun, we get this.

4- The Earth spins around this invisible line from North Pole to South Pole.

6- The fixed path on which Earth goes around the Sun.



## DOWN

2- The Earth takes 365 days to complete one revolution, which makes one

3- Each day of the lunar month is called a ...

5- It has no light of its own and shines by reflecting sunlight.

## Answers :

**ACROSS:** 1- Day 4-Axis 6- Orbit

**DOWN:** 2- Year 3- Tithi 5- Moon