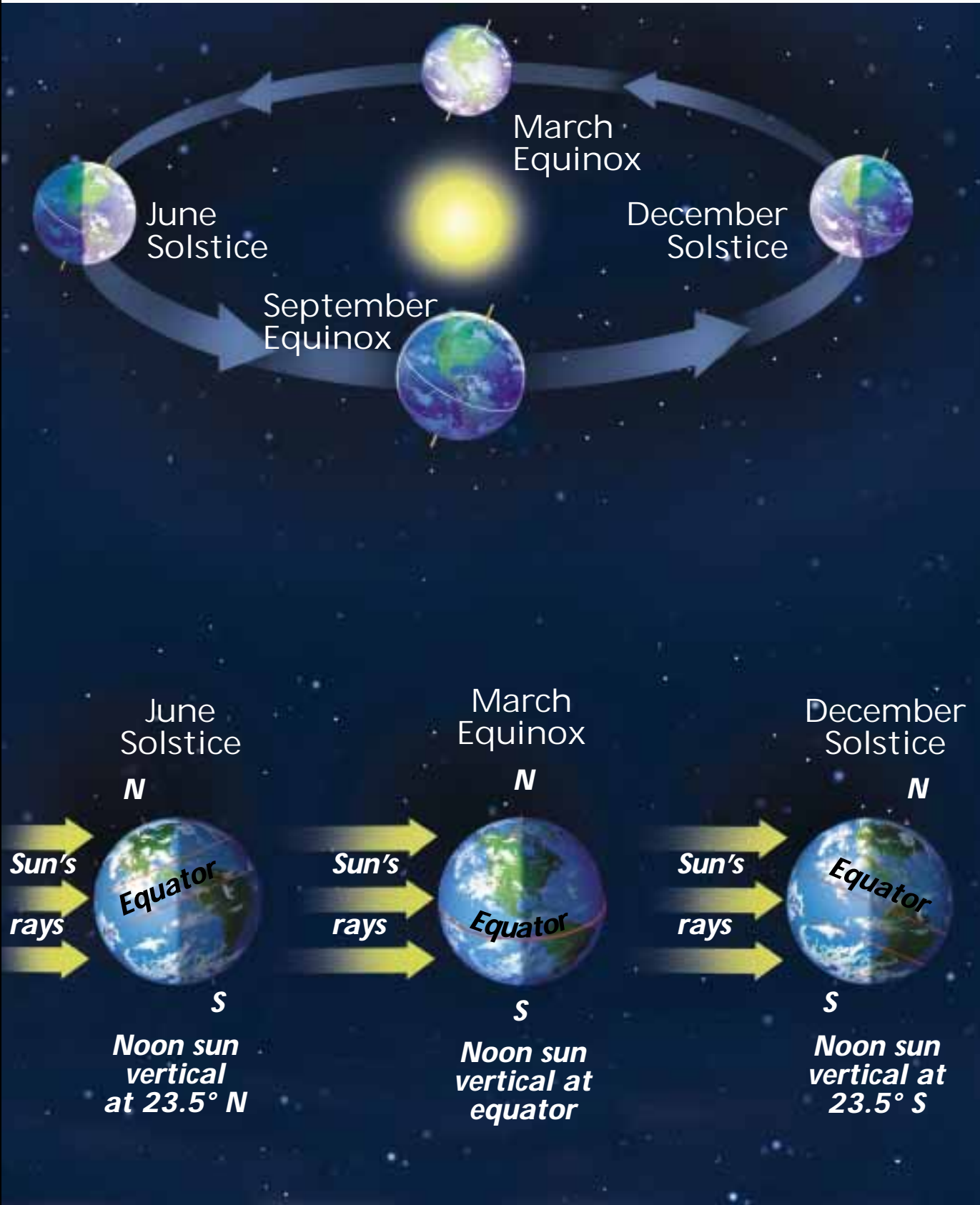


# 93 Exploring the Seasons



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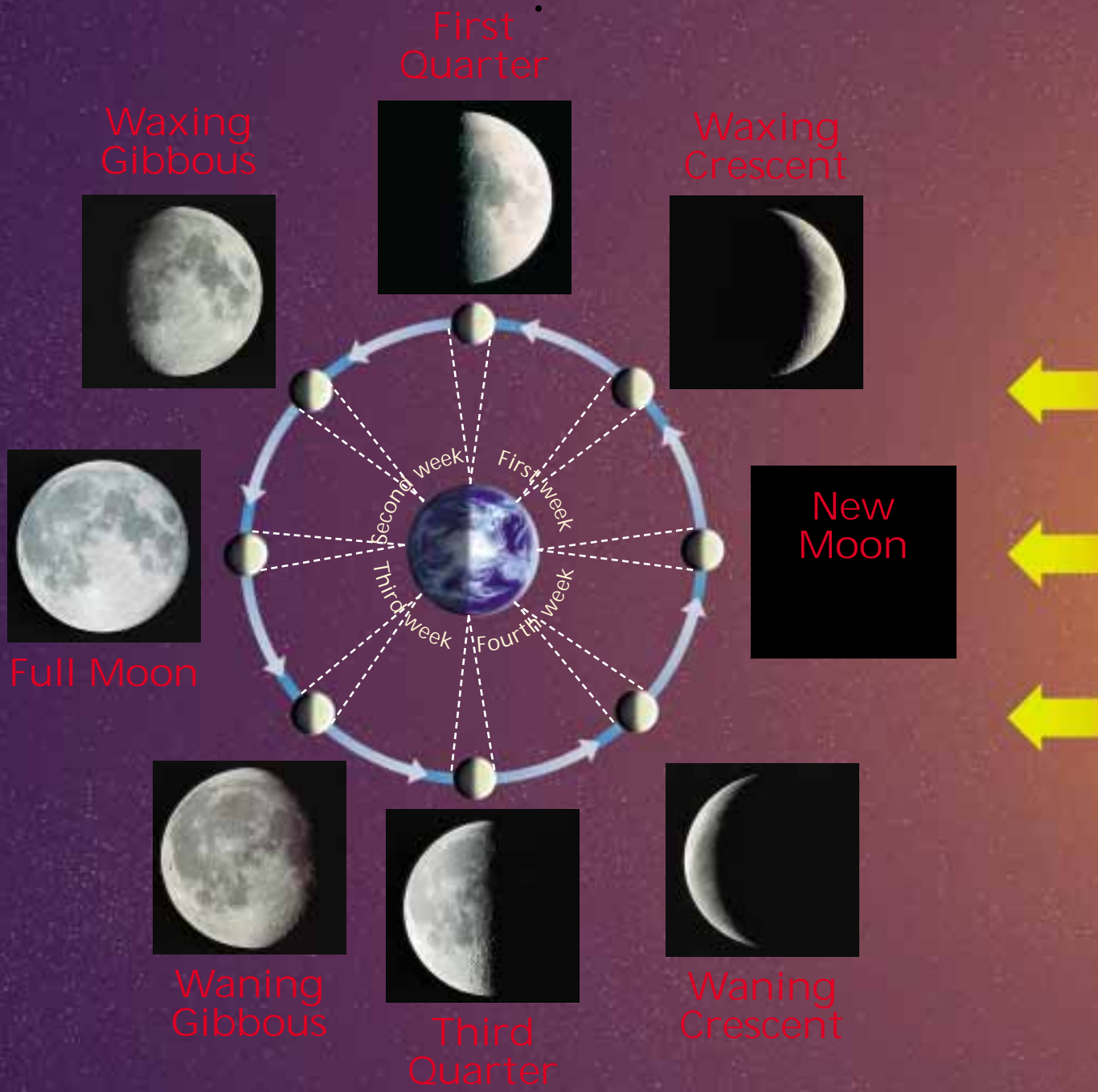
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# 94 Exploring Phases of the Moon



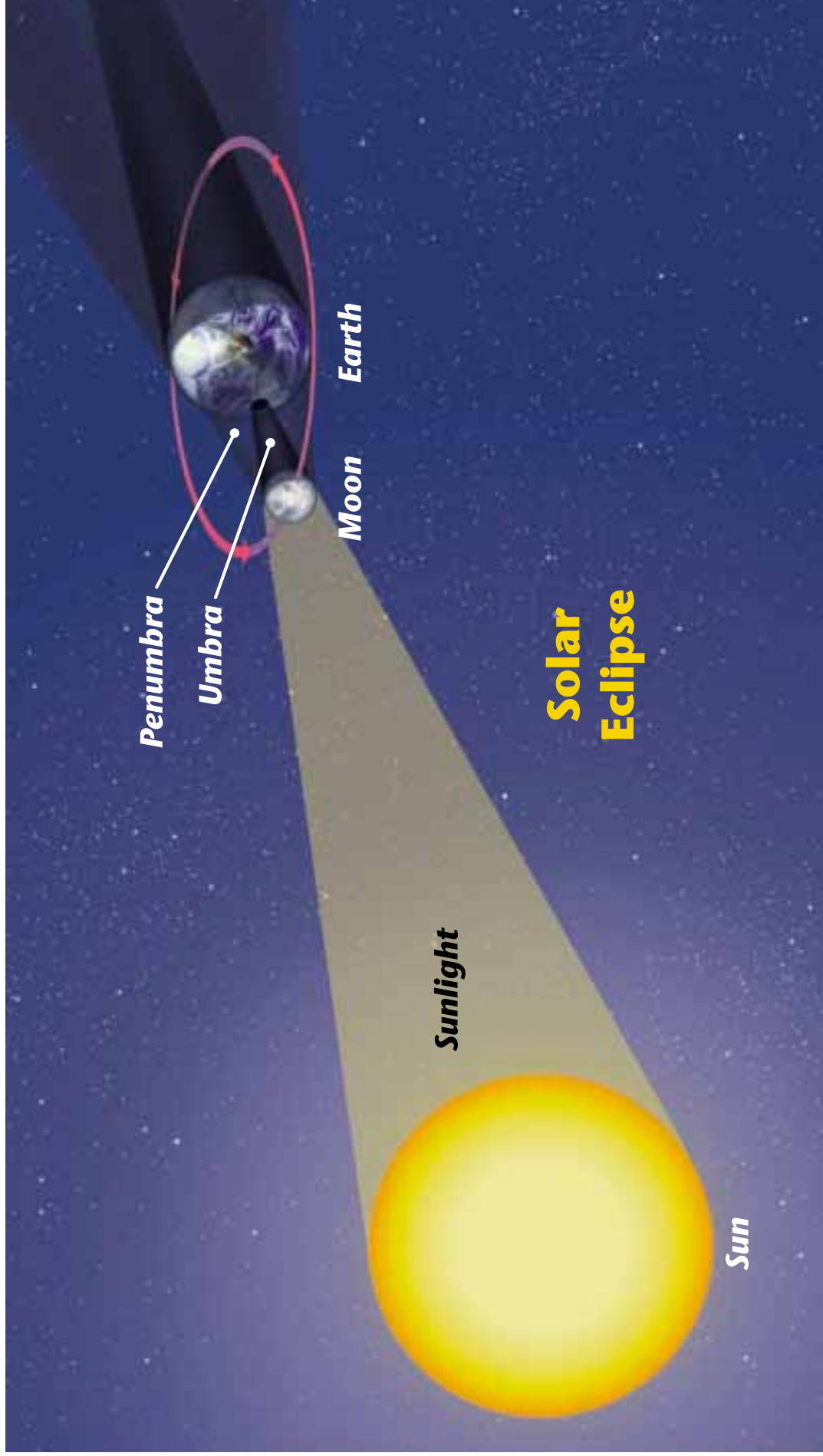
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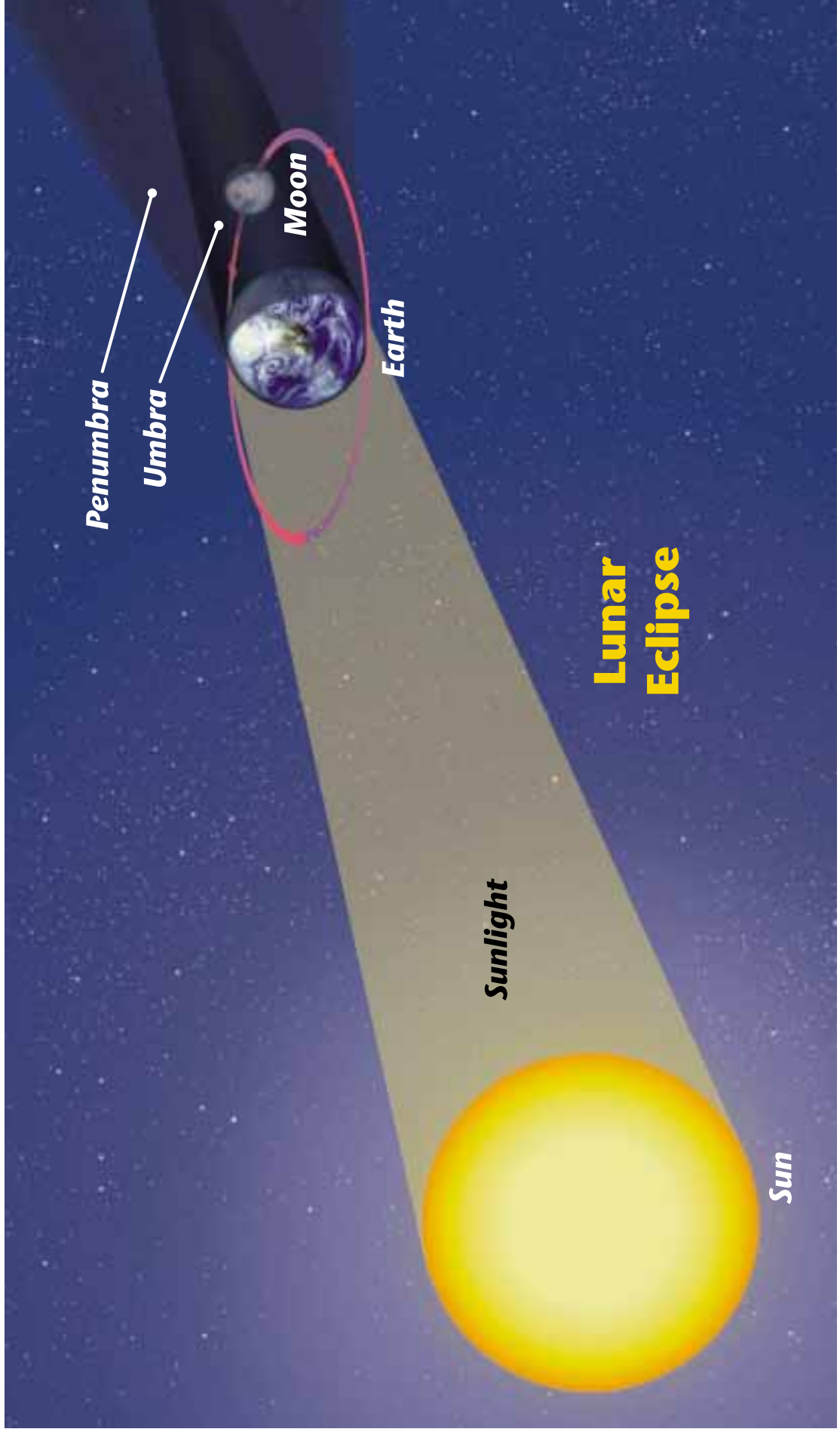


# 95 Solar Eclipse





# 96 Lunar Eclipse





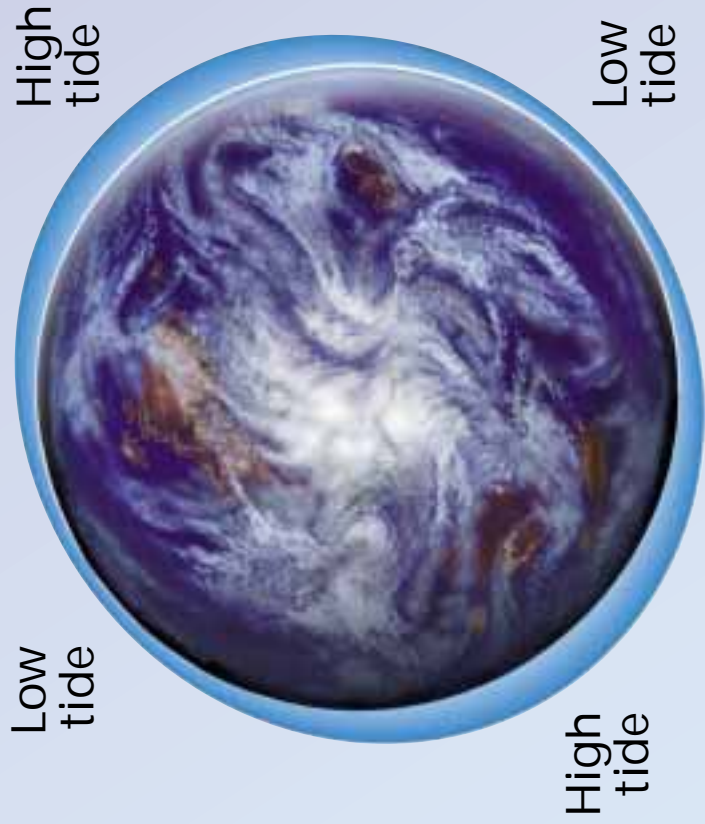
# 97 High and Low Tides

## High and Low Tides



Moon

Earth



Low tide

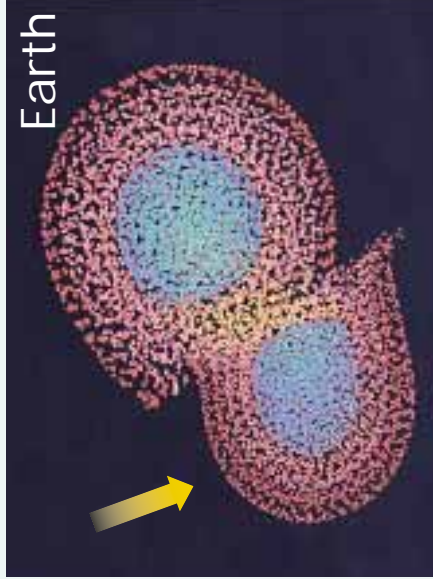
High tide

High tide

Low tide



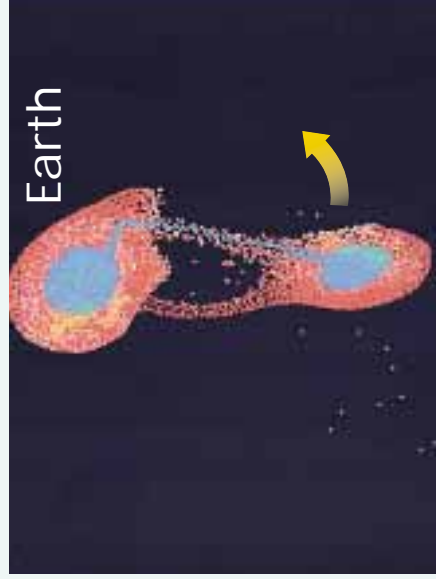
# 98 Collision Theory of the Moon's Origin



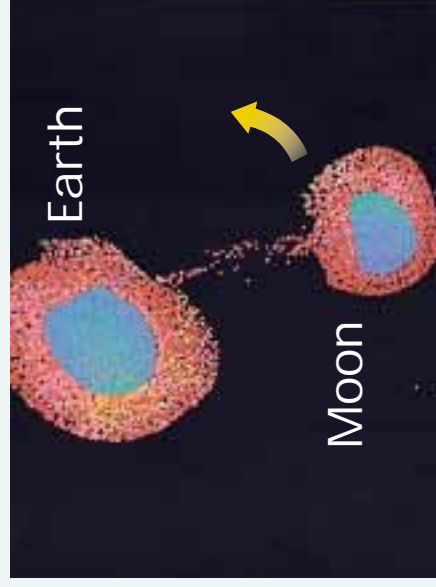
**1** A large object strikes Earth.



**2** Material from Earth's outer layer is broken off by the collision.



**3** Material from the object and Earth is thrown into orbit.



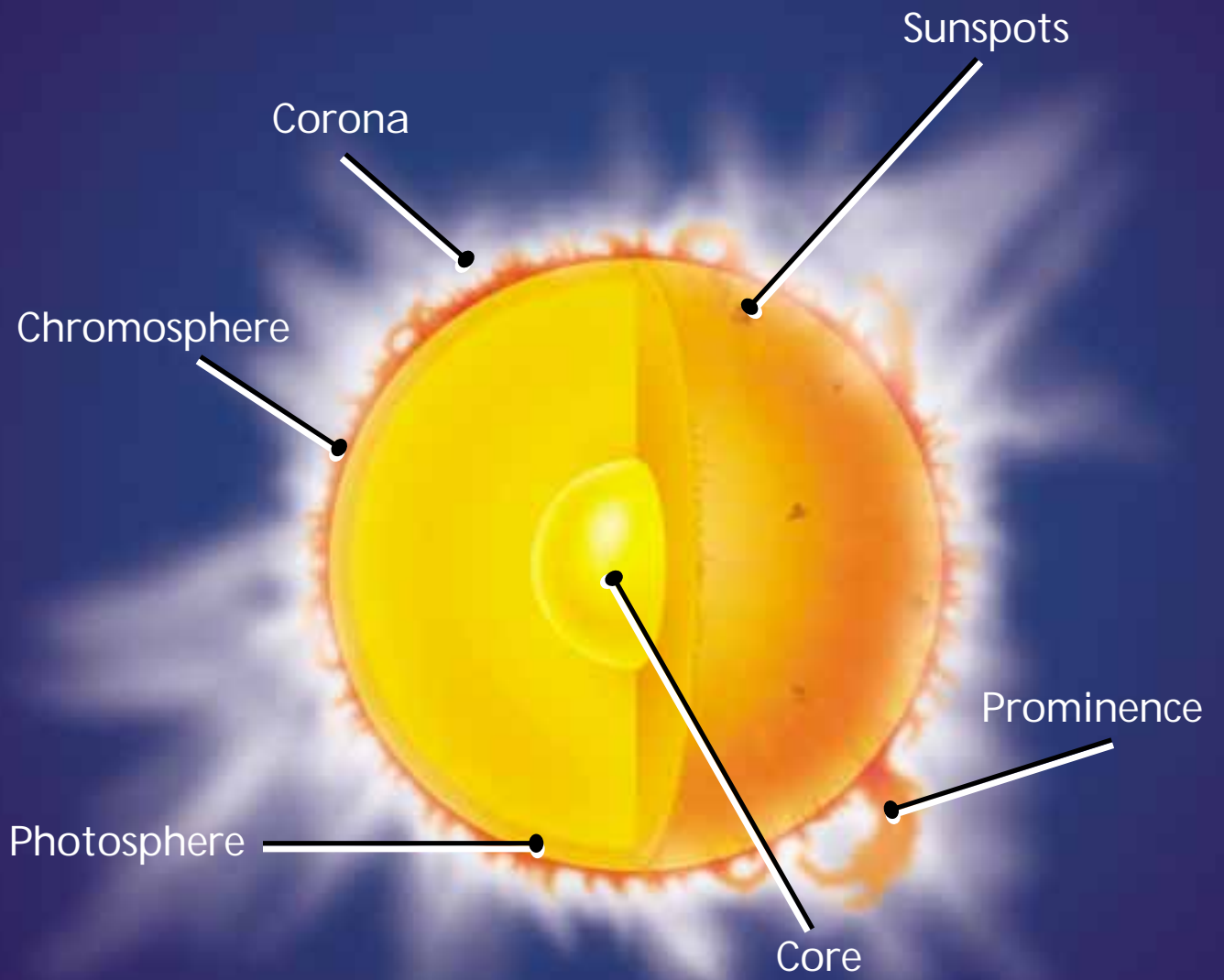
**4** Material in orbit forms the moon.

# 99 Exploring the Sun



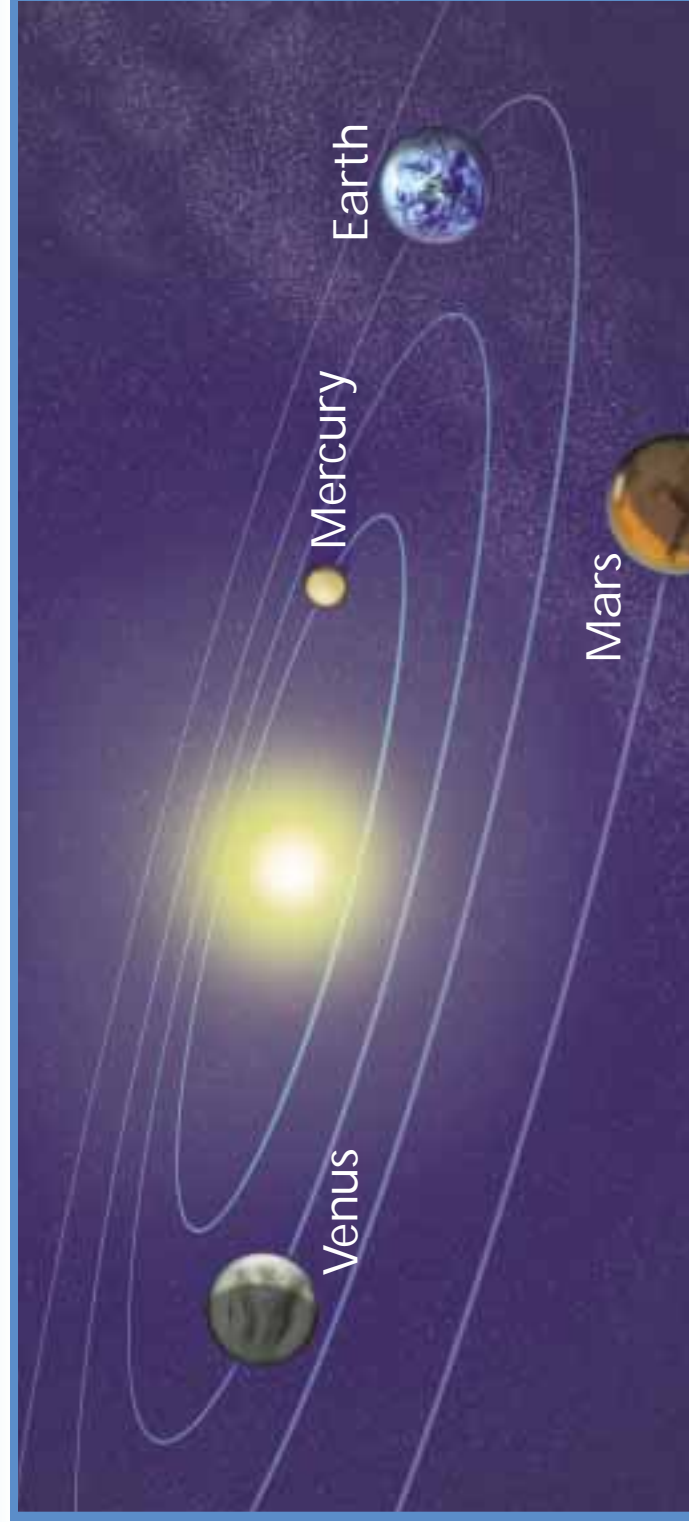
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# 100 The Inner Planets



Planet	Diameter (kilometers)	Period of Rotation (Earth days)	Average Distance From the Sun (kilometers)	Period of Revolution (Earth years)	Number of Moons
Mercury	4,878	59	58,000,000	0.24	0
Venus	12,104	243	108,000,000	0.62	0
Earth	12,756	1	150,000,000	1	1
Mars	6,794	1.03	228,000,000	1.9	2





# 101 The Outer Planets

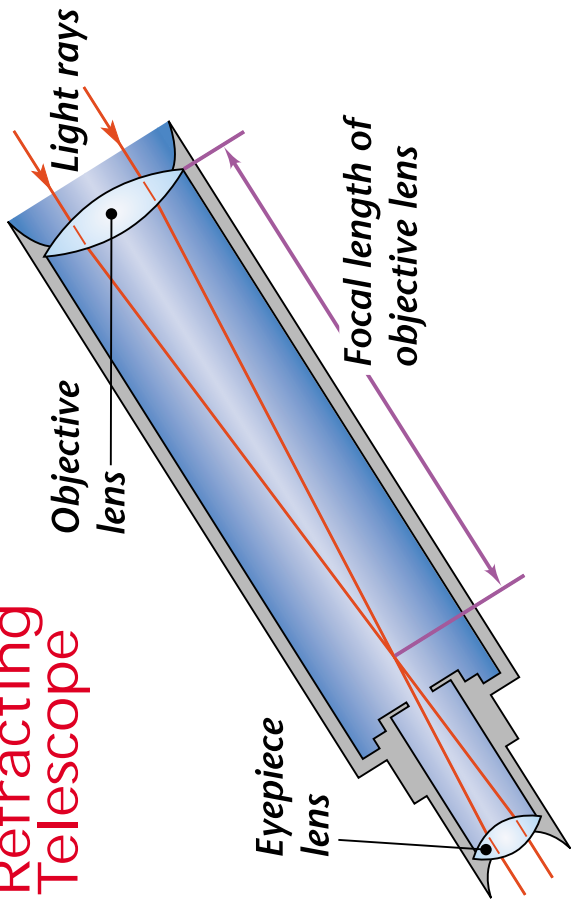


Planet	Diameter (kilometers)	Period of Rotation (Earth days)	Average Distance From the Sun (kilometers)	Period of Revolution (Earth years)	Number of Moons
Jupiter	142,800	0.41	778,000,000	12	17
Saturn	120,540	0.43	1,427,000,000	29	19
Uranus	51,200	0.72	2,871,000,000	84	18
Neptune	49,500	0.67	4,497,000,000	165	8
Pluto	2,200	6.4	5,913,000,000	248	1

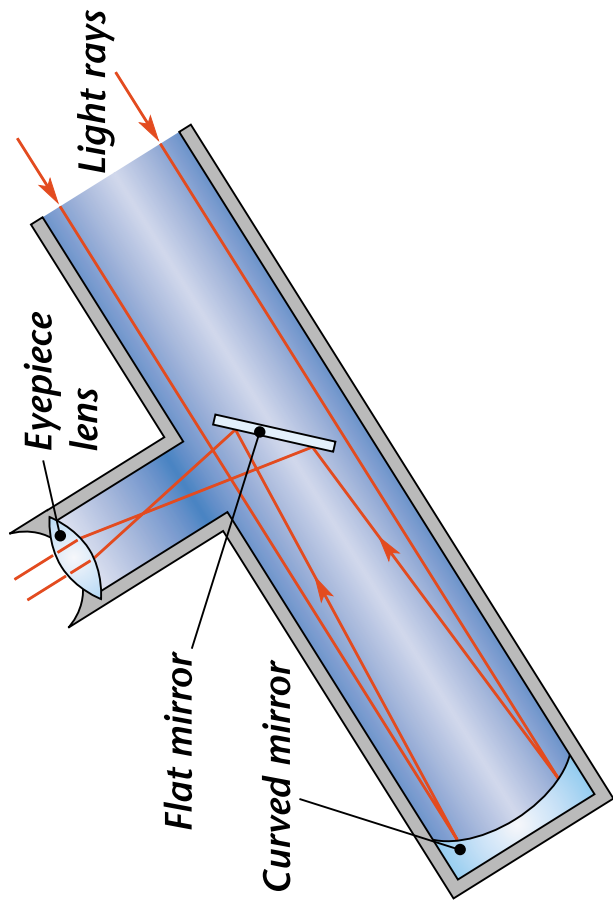


# 102 Refracting and Reflecting Telescopes

## Refracting Telescope

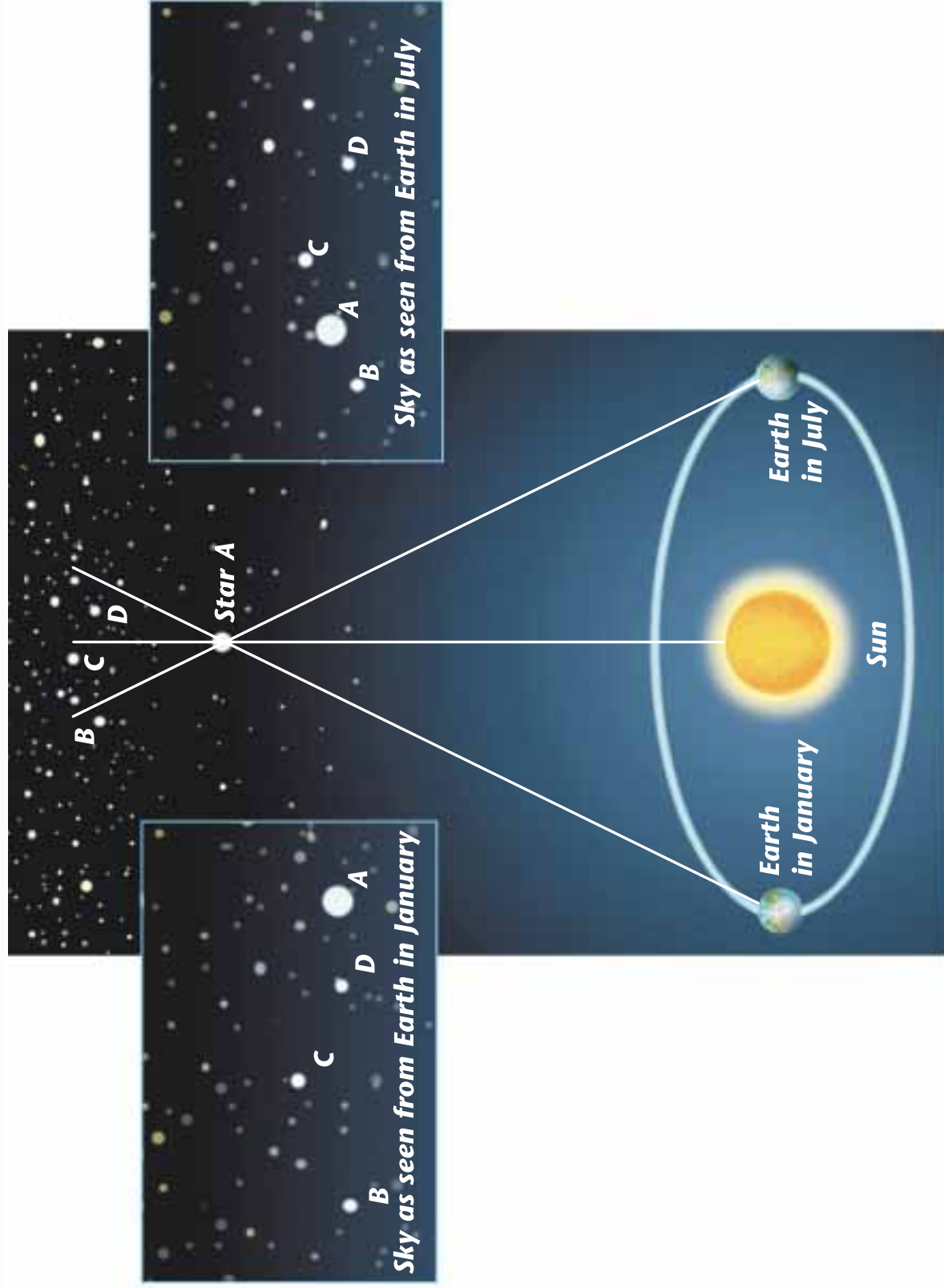


## Reflecting Telescope





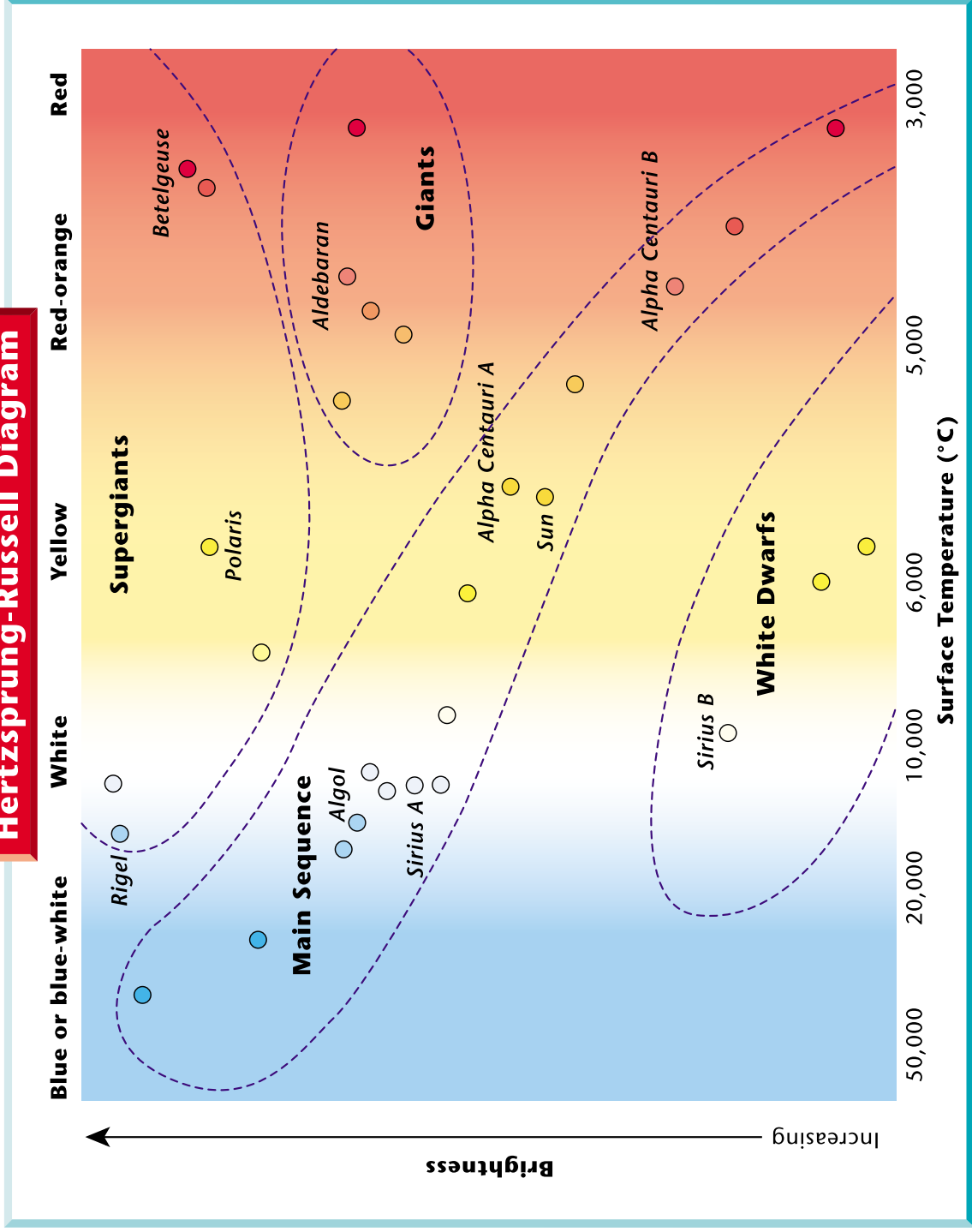
# 103 Parallax





# 104 Hertzsprung-Russell Diagram

**Hertzsprung-Russell Diagram**

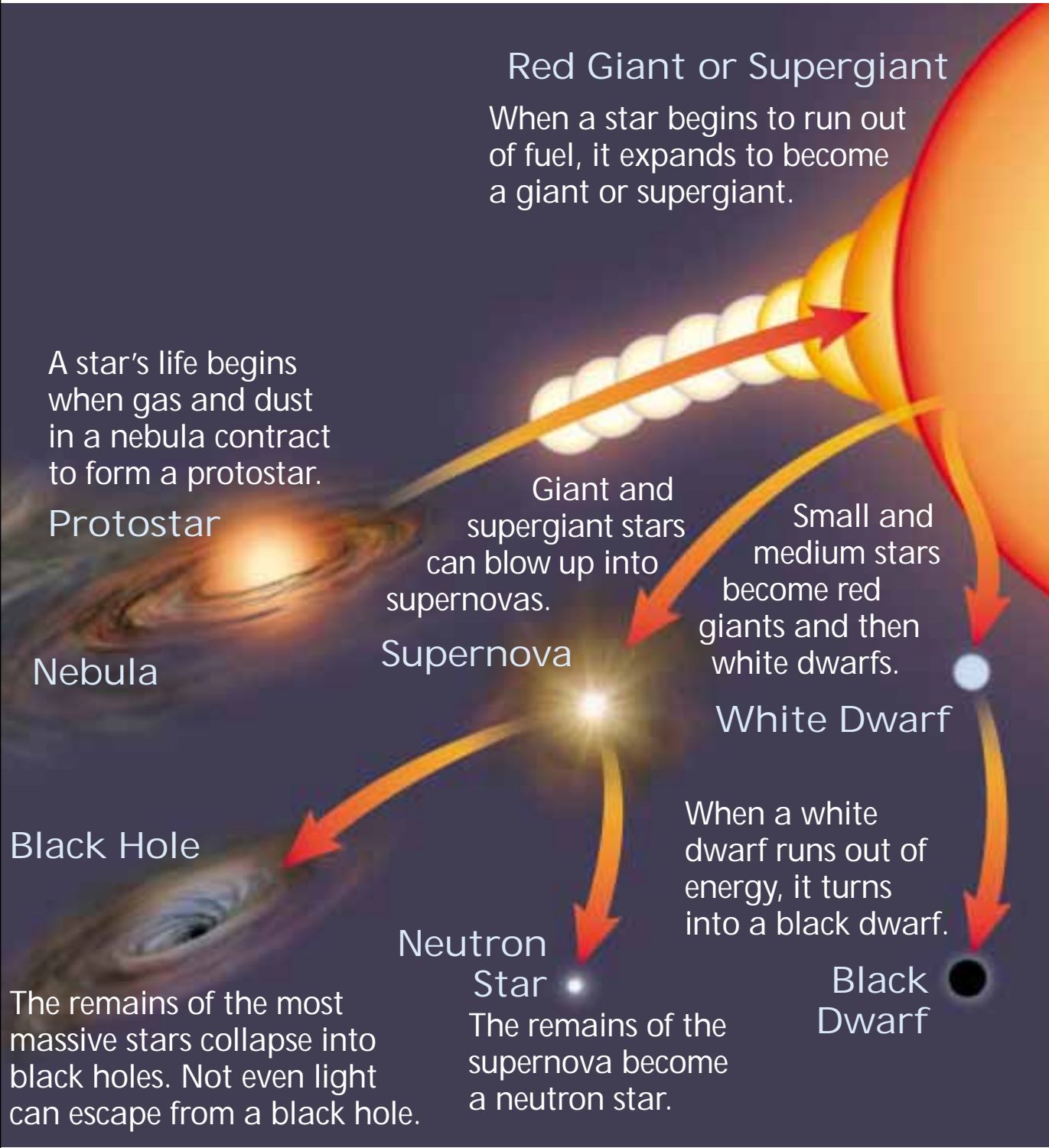


# 105 Exploring the Lives of Stars



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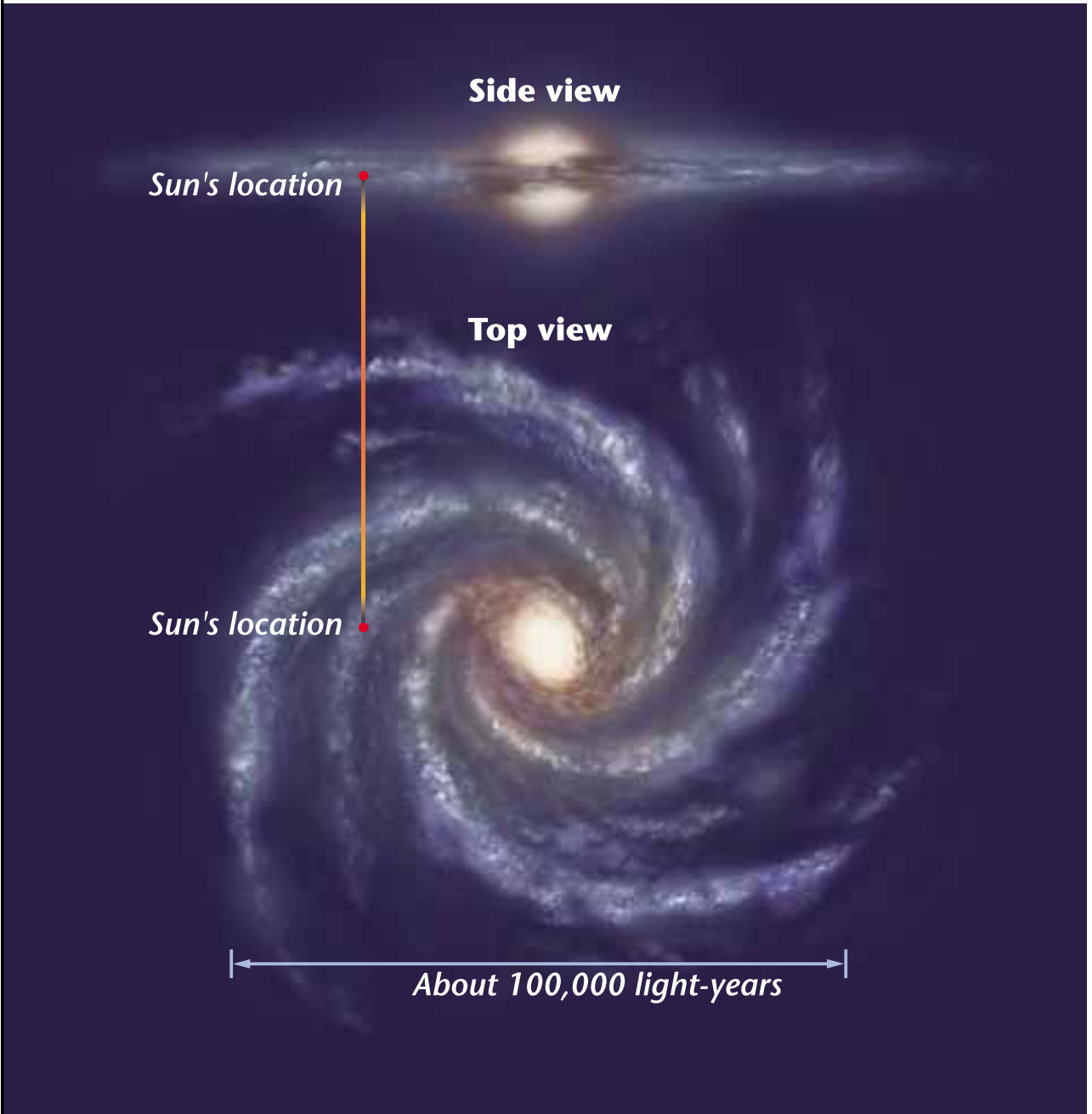


# 106 The Milky Way Galaxy



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# 107 Formation of the Solar System

1

A cloud of gas and dust formed a spinning disk.

2

Gas in the center of the disk collapsed to form the sun.

3

The remaining gas and dust formed the planets.

4

The solar system includes the sun, planets, and belts of rock, ice, and dust.

