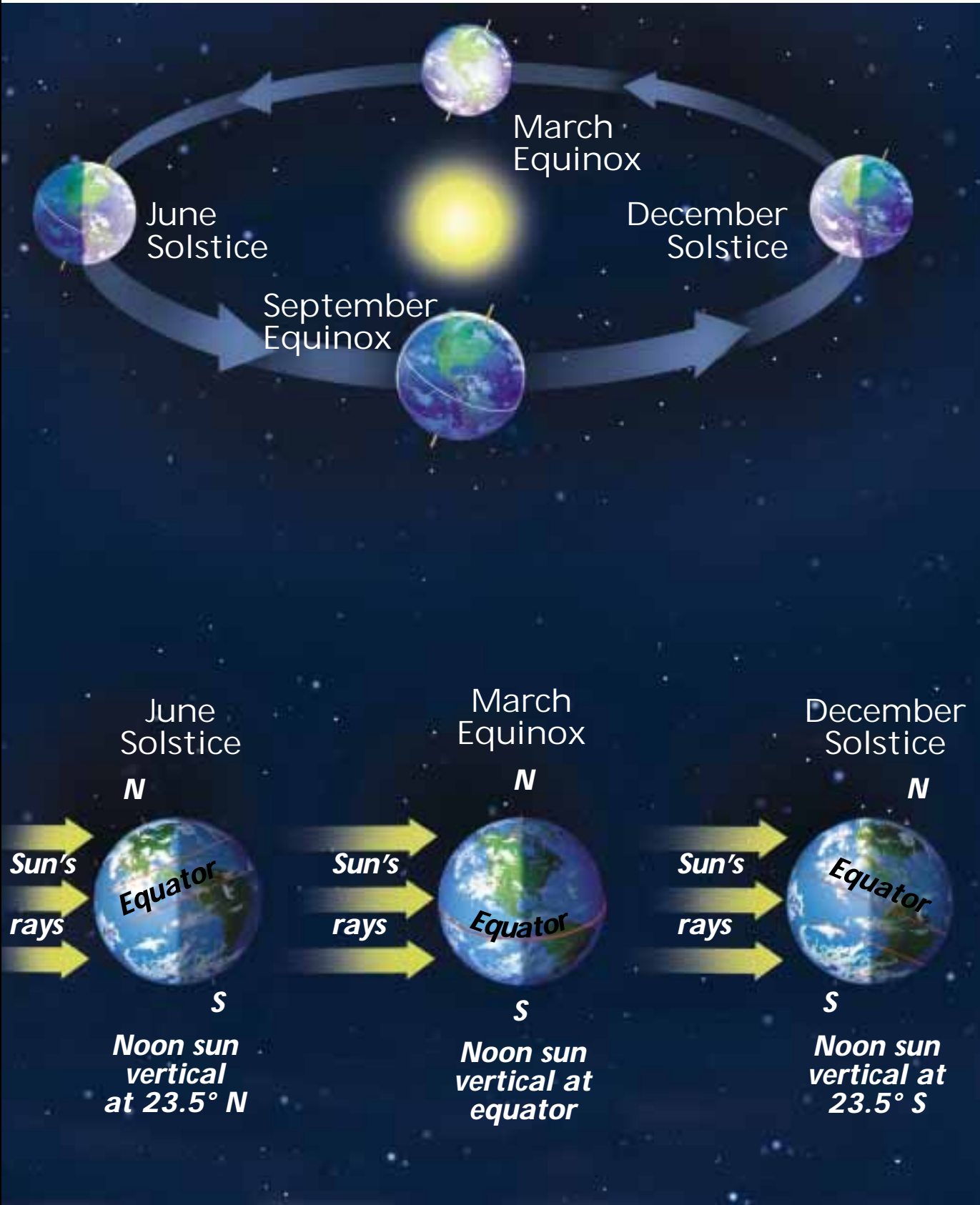


93 Exploring the Seasons



© Prentice-Hall, Inc.



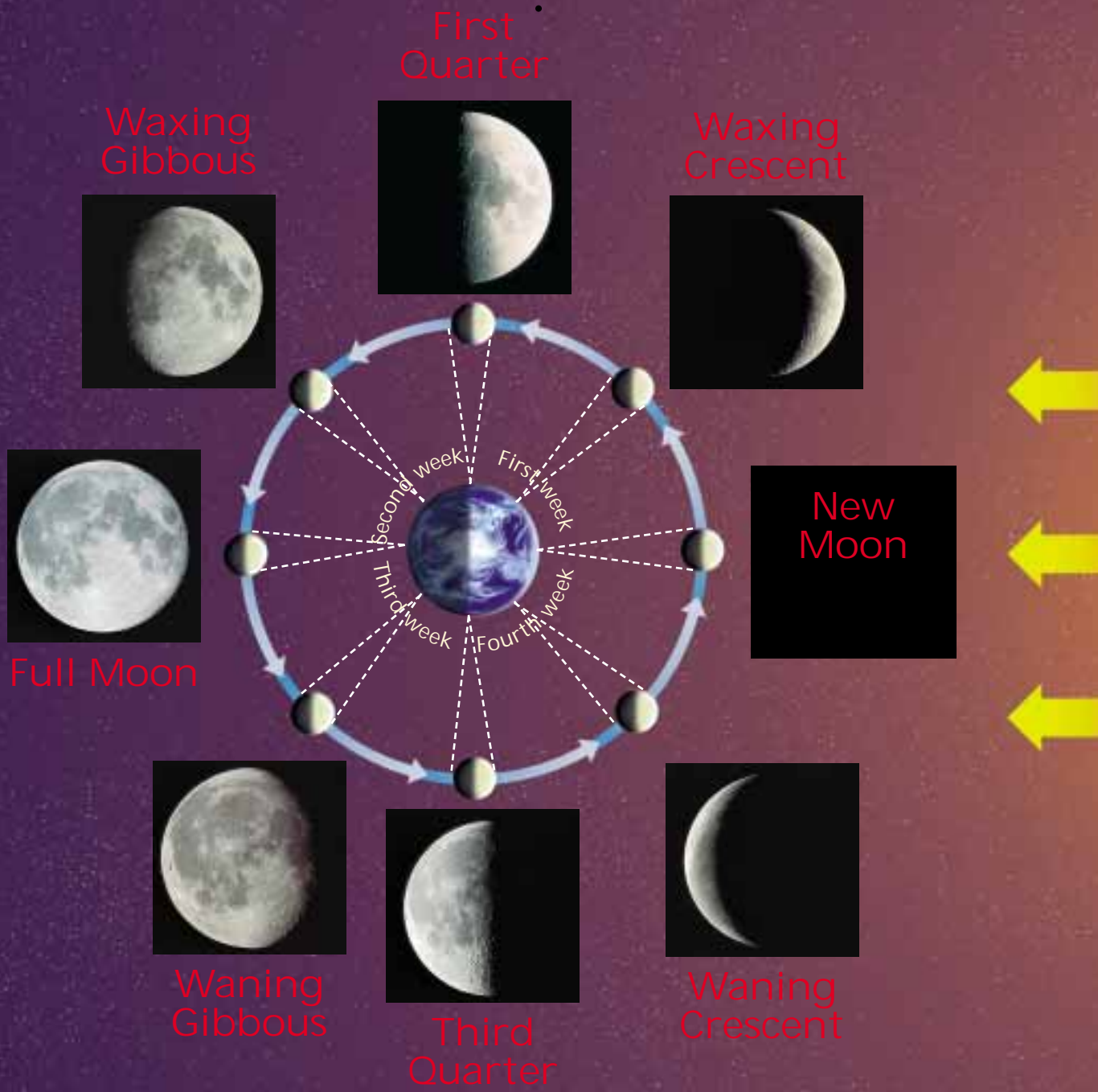
SCIENCE EXPLORER Focus on Physical Science

94 Exploring Phases of the Moon



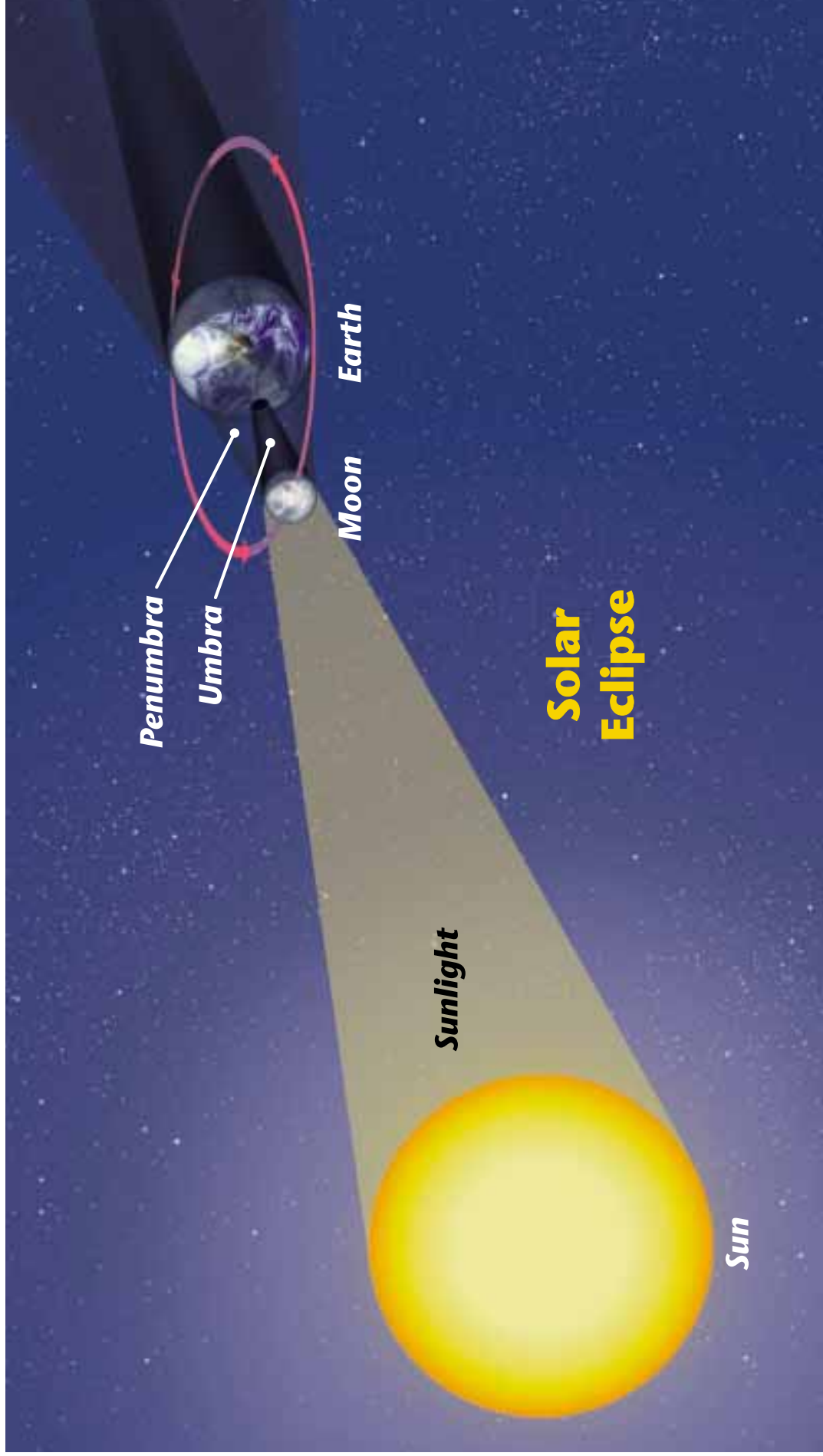
© Prentice-Hall, Inc.

SCIENCE EXPLORER Focus on Physical Science



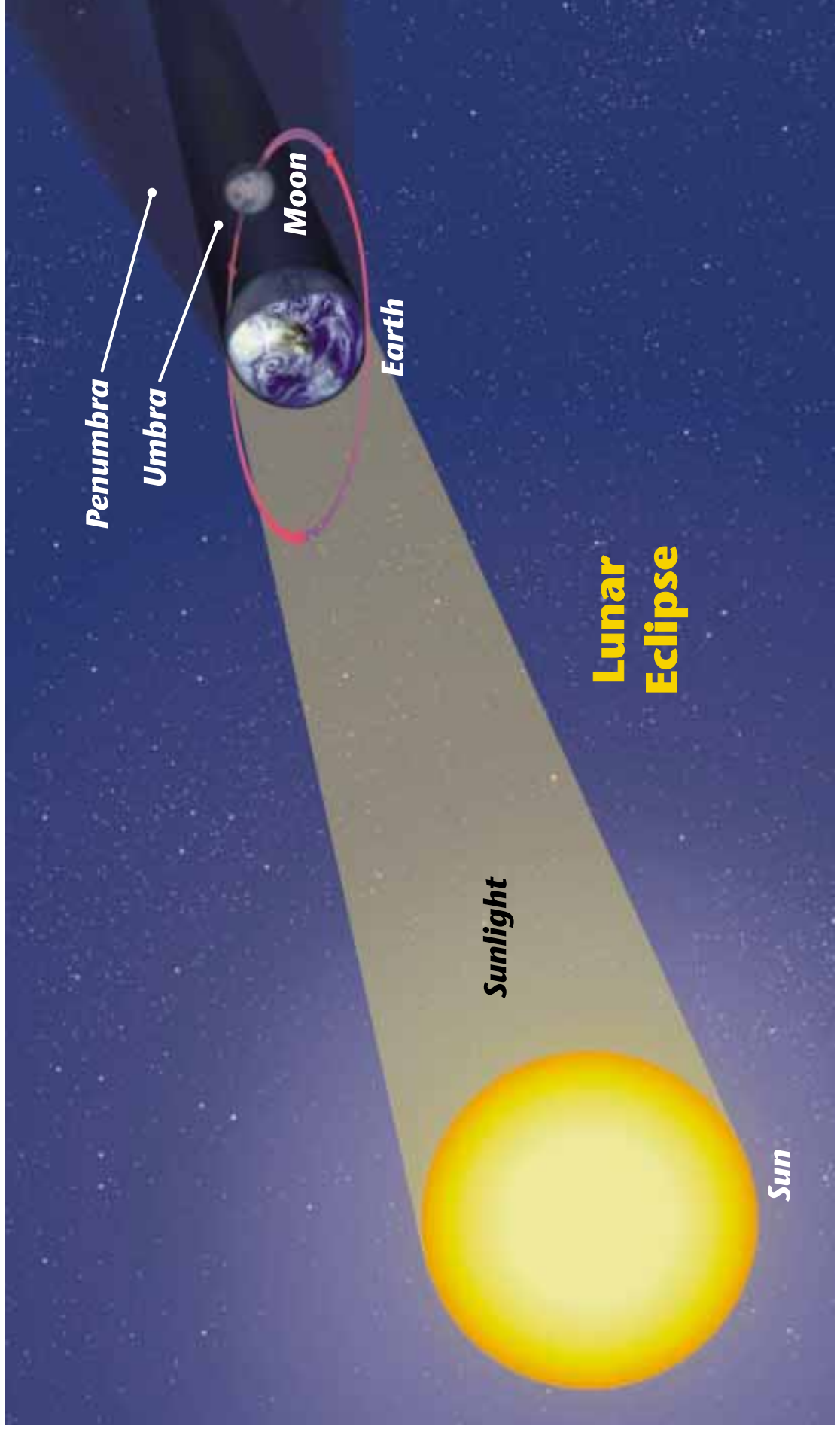


95 Solar Eclipse





96 Lunar Eclipse





97 High and Low Tides

High and Low Tides

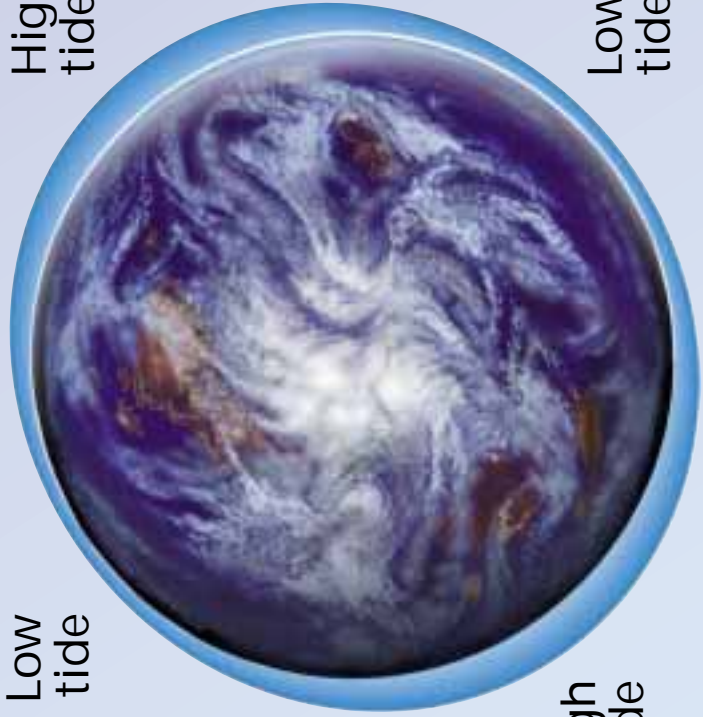


Moon

Earth

Low
tide

High
tide

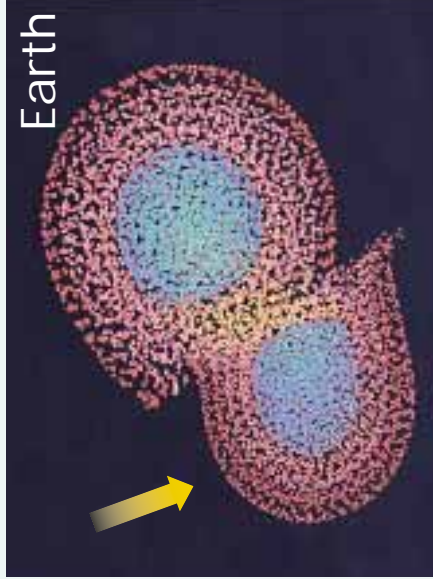


High
tide

Low
tide



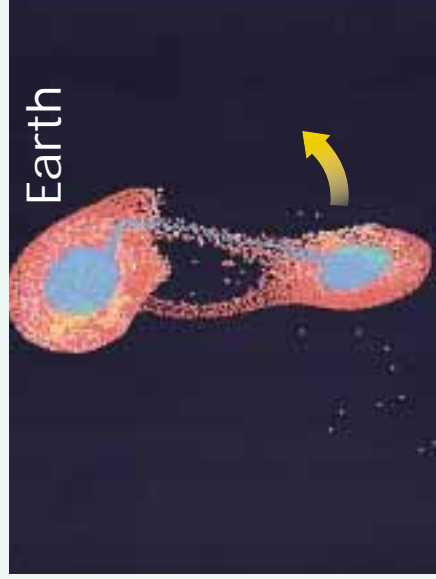
98 Collision Theory of the Moon's Origin



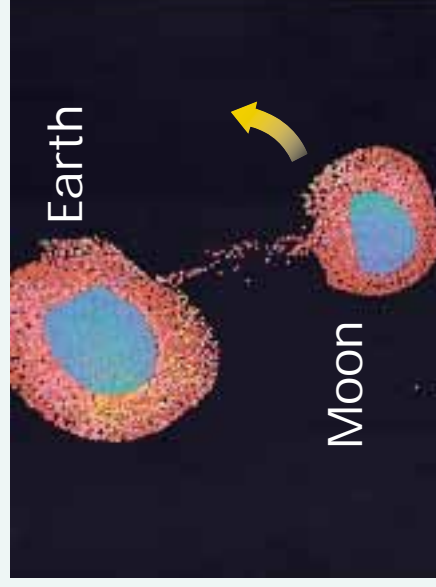
1 A large object strikes Earth.



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



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



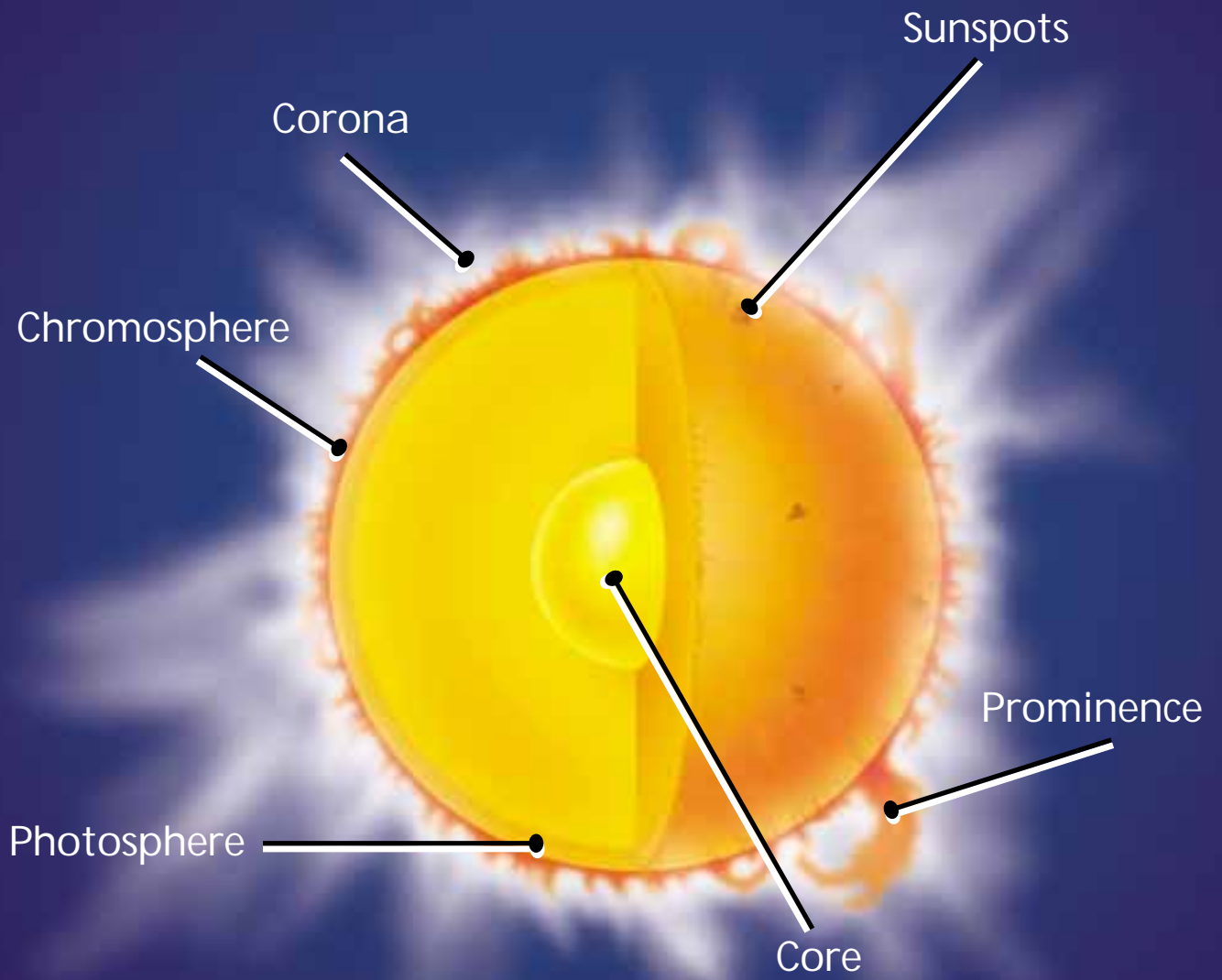
4 Material in orbit forms the moon.

99 Exploring the Sun



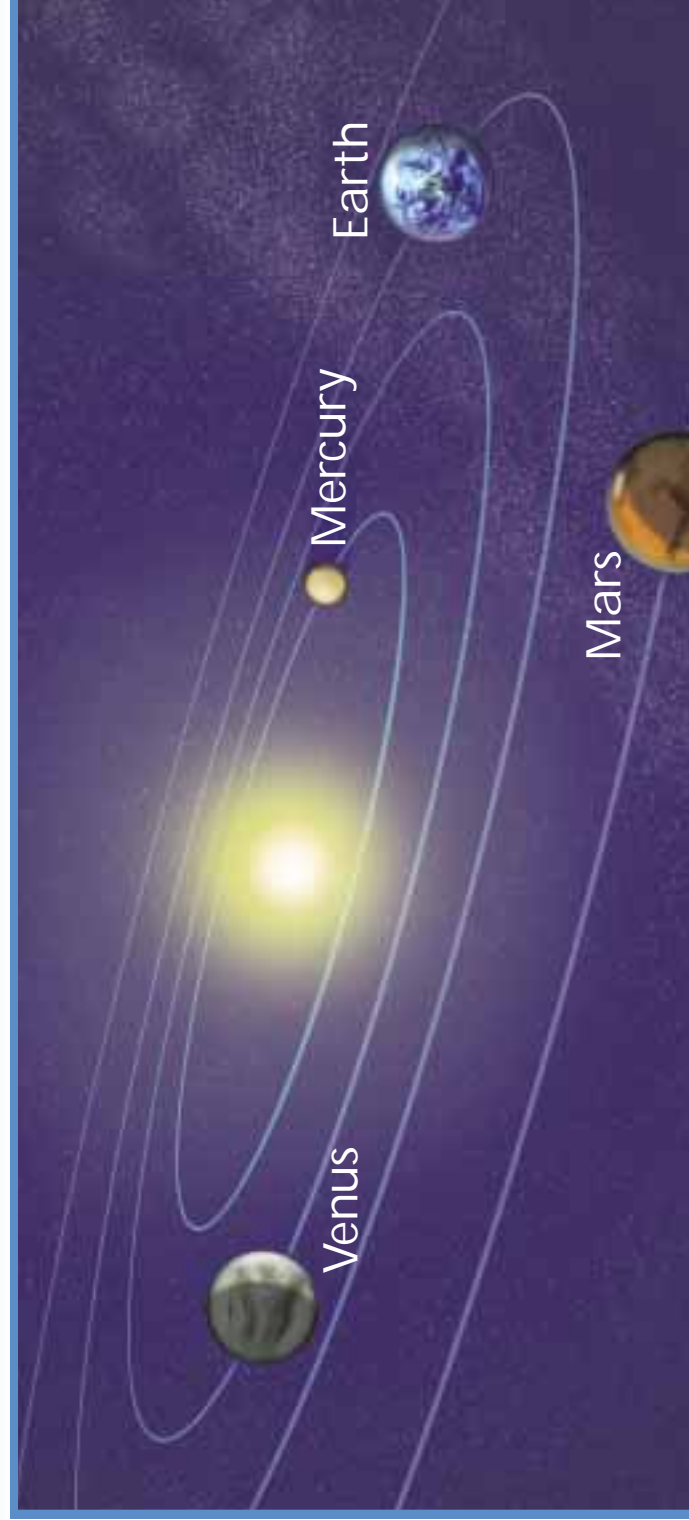
© Prentice-Hall, Inc.

SCIENCE EXPLORER Focus on Physical Science





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

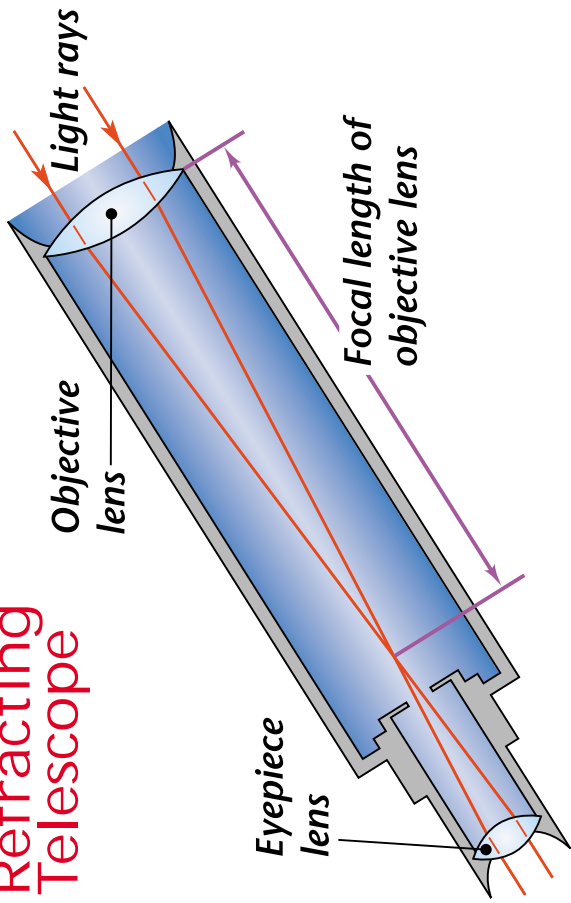


Planet	Diameter (kilometers)	Period of Rotation (Earth days)	Average Distance From the Sun (kilometers)	Period of Revolution (Earth years)	Number of Moons
Jupiter	142,800	0.41	778,000,000	12	17
Saturn	120,540	0.43	1,427,000,000	29	19
Uranus	51,200	0.72	2,871,000,000	84	18
Neptune	49,500	0.67	4,497,000,000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

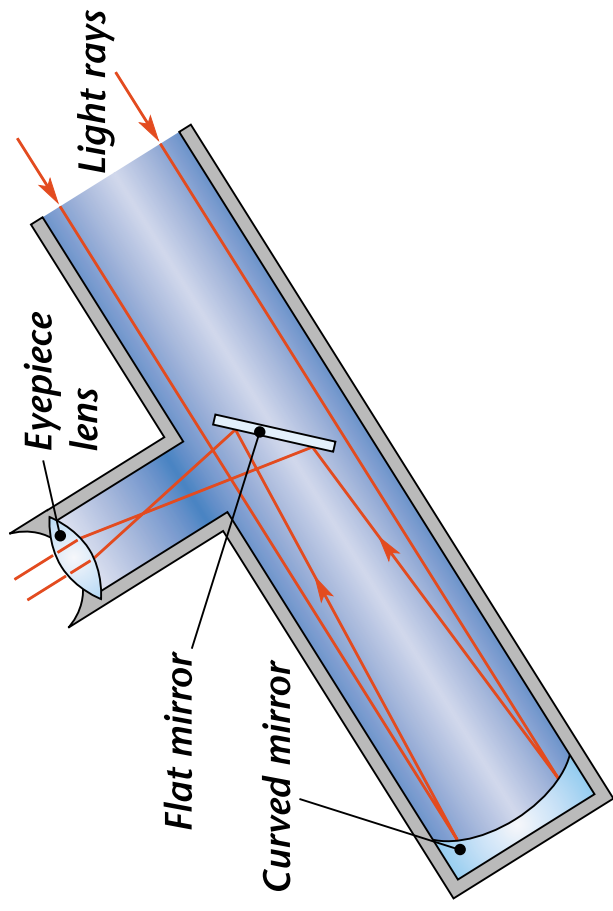


102 Refracting and Reflecting Telescopes

Refracting Telescope

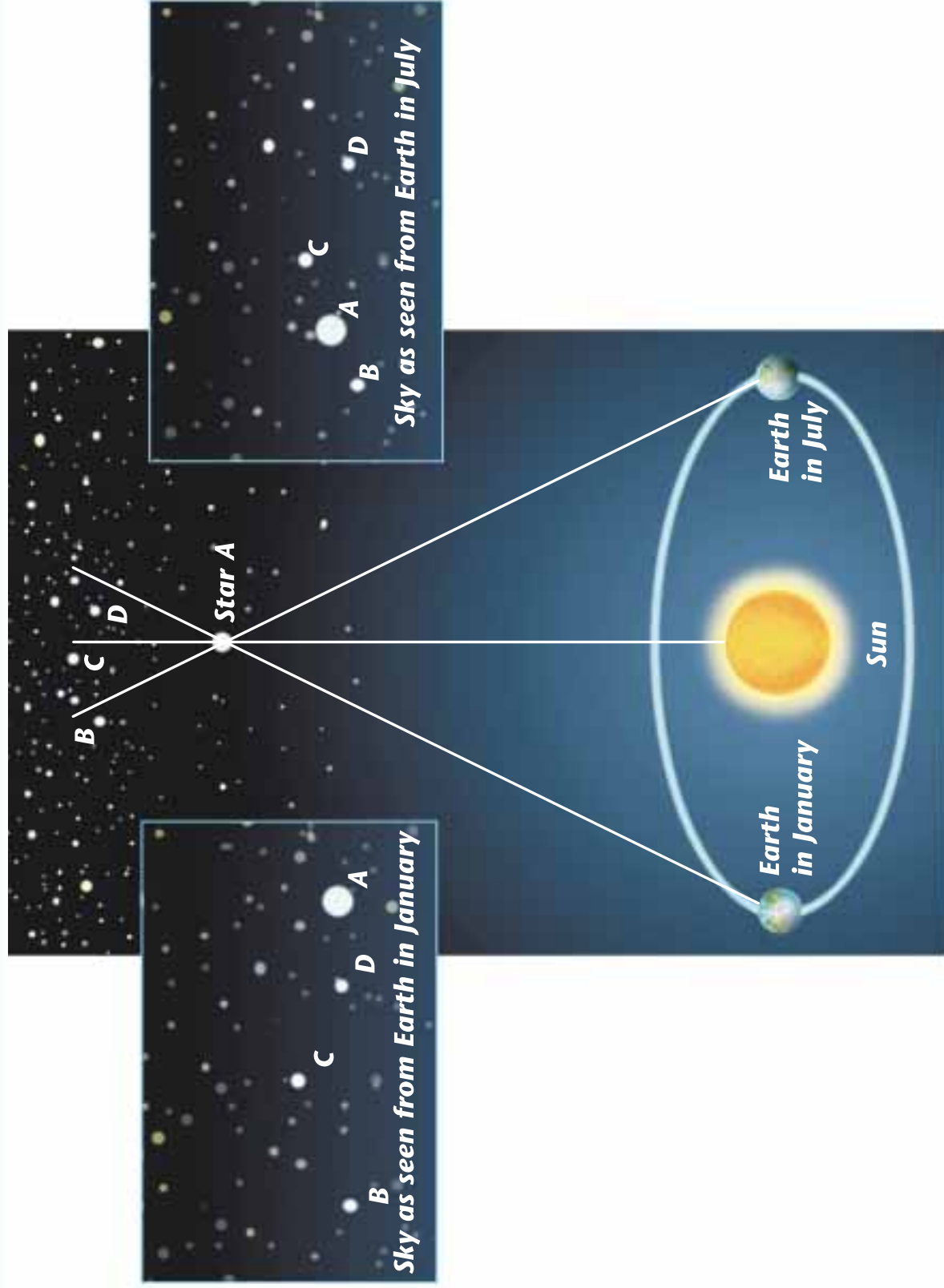


Reflecting Telescope



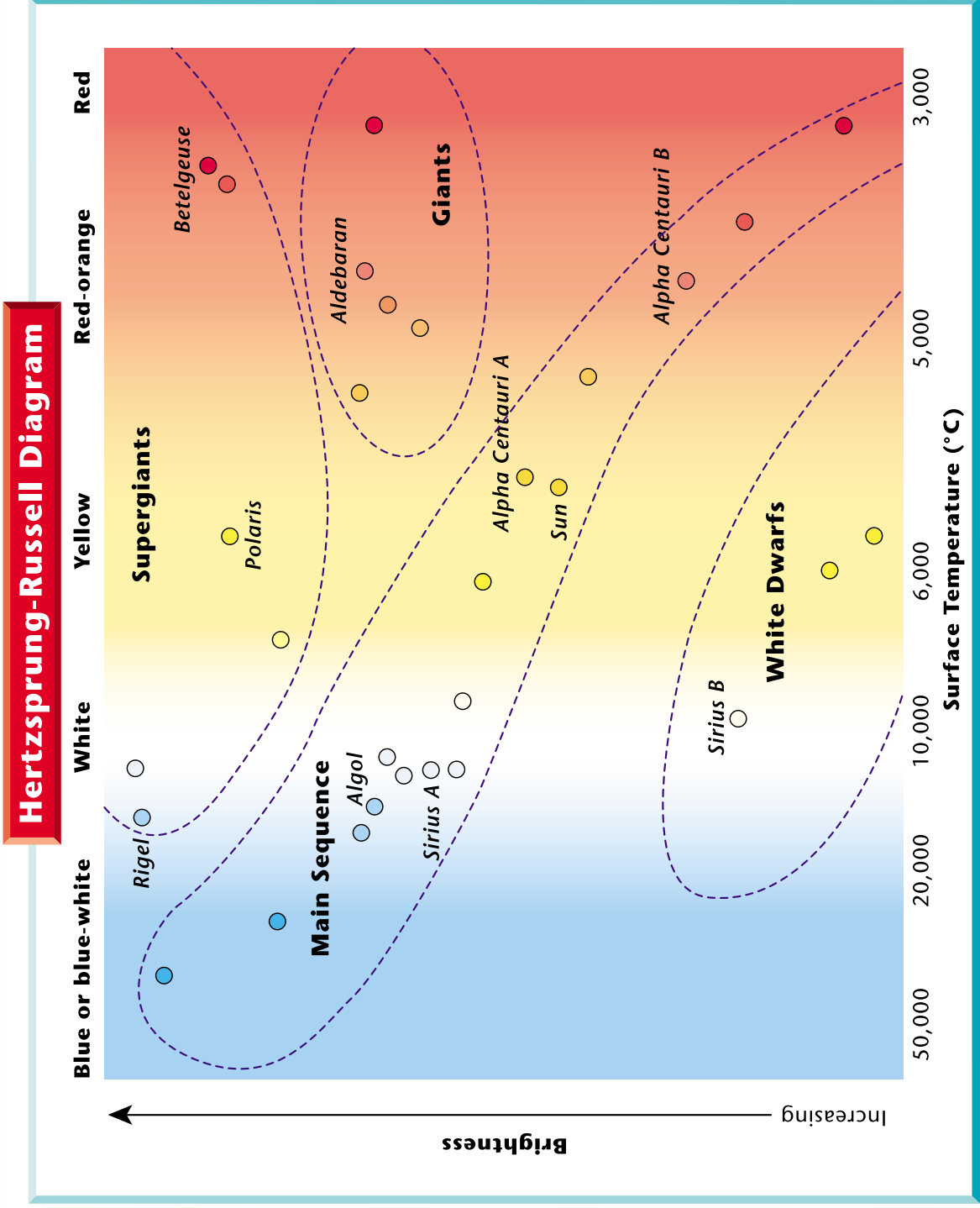


103 Parallax





104 Hertzsprung-Russell Diagram

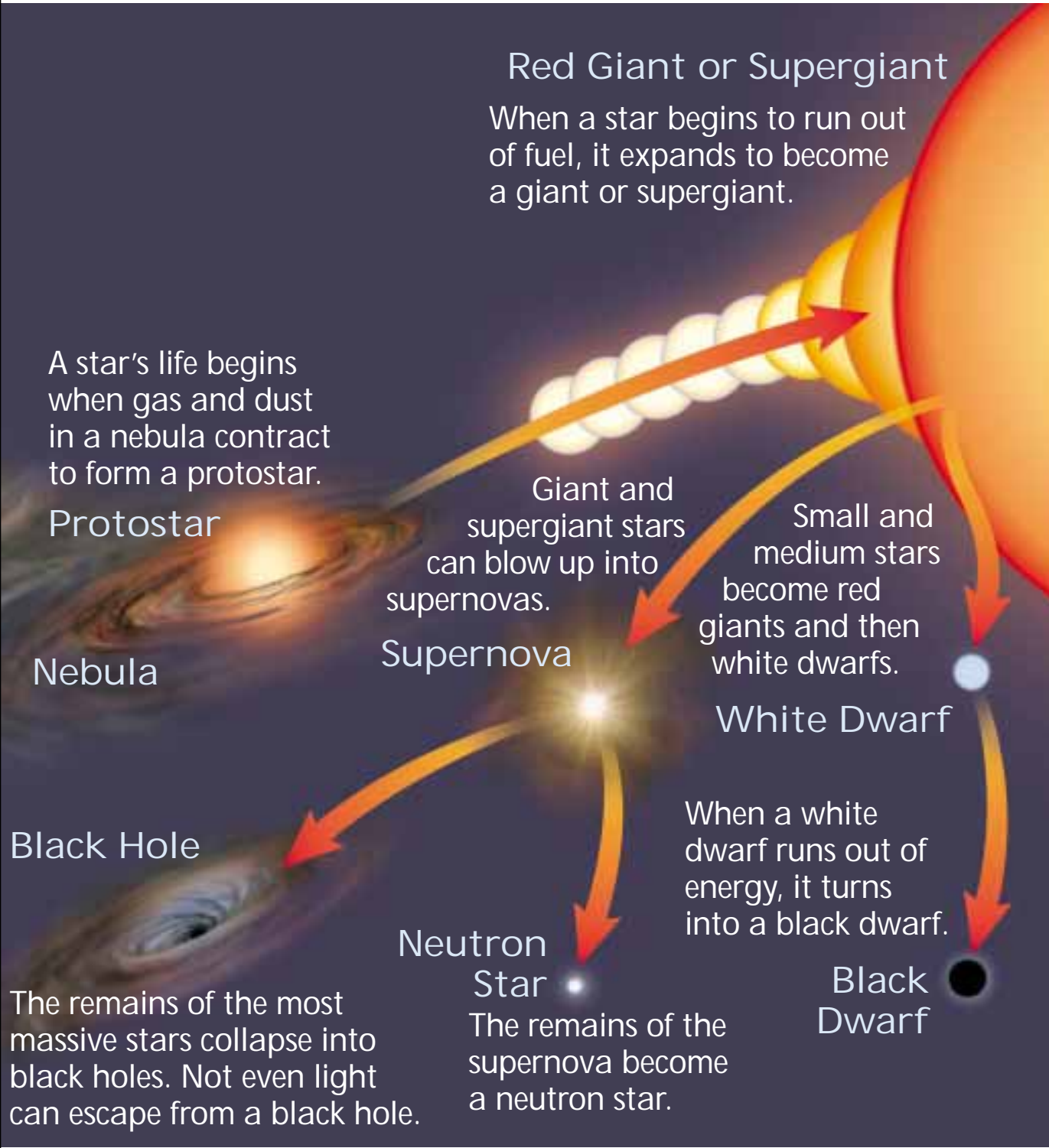


105 Exploring the Lives of Stars



© Prentice-Hall, Inc.

SCIENCE EXPLORER Focus on Physical Science

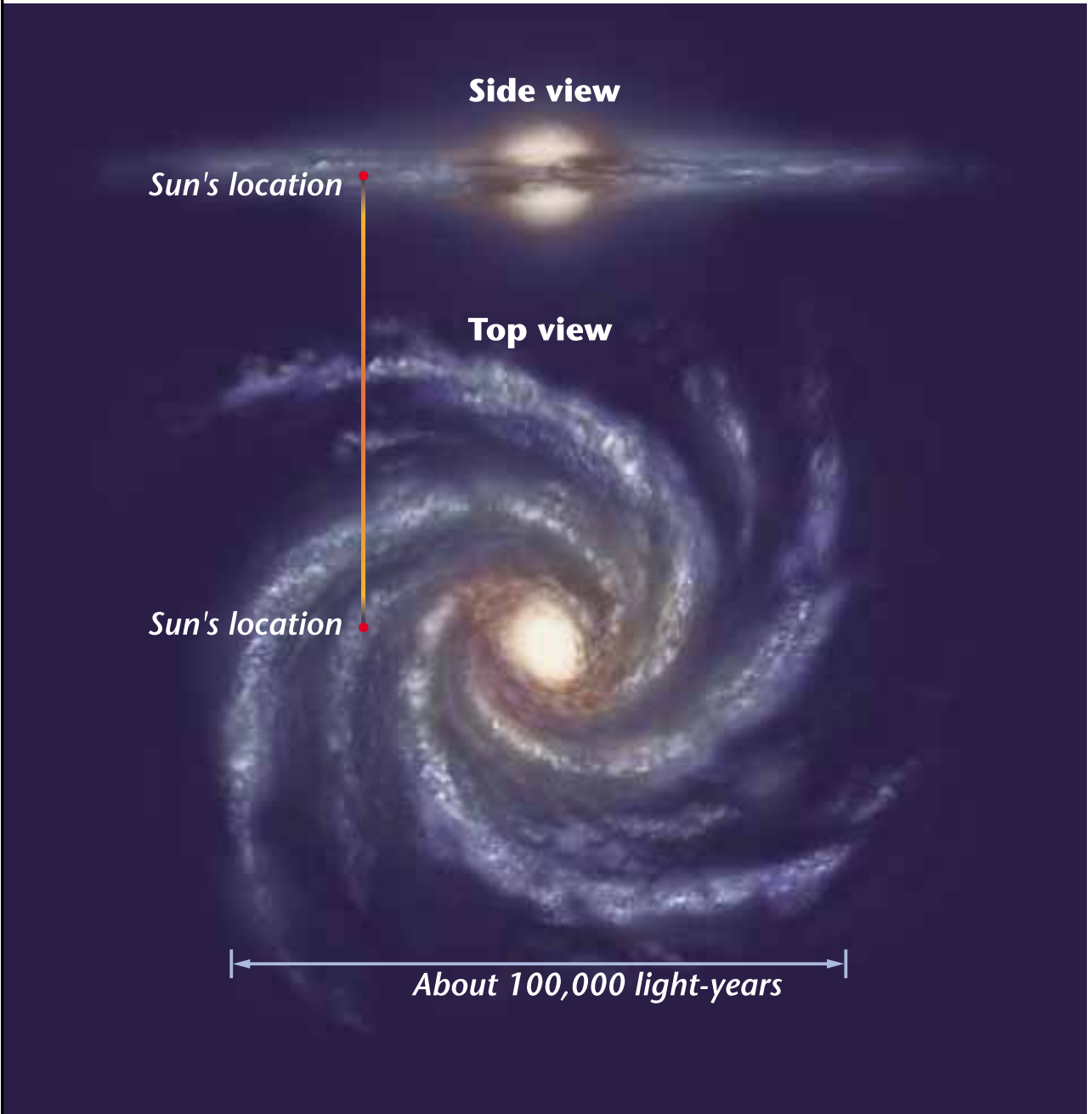


106 The Milky Way Galaxy



© Prentice-Hall, Inc.

SCIENCE EXPLORER Focus on Physical Science





107 Formation of the Solar System

1

A cloud of gas and dust formed a spinning disk.



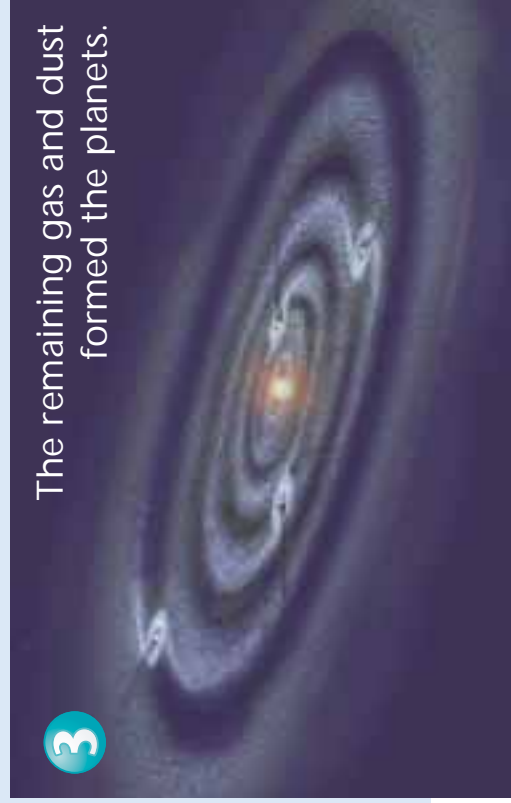
2

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.

