## Note-taking Worksheet (continued)

	ċ.	A total solar eclipse is visible only on a small area of		
2		—when Earth's shadow falls on the Moon		
	a.	If the Moon is completely in Earth's umbra, a lunar eclipse occurs.		
	b.	lunar eclipse—when only part of the Moon moves into Earth's umbra, or the moon is totally in the penumbra		
	c.	A total lunar eclipse is visible on the side of Earth when the night is clear.		
	The Moon's surface has many depressions, or, formed from meteorites, asteroids, and comets.			
]		cacks in the Moon's crust caused lava to fill large craters, forming, or dark, flat eas.		
. 2		neous maria rocks are 3 to 4 years old, indicating craters formed after the arface cooled.		
E. ]	Data from suggest that under the Moon's crust might lie a solid mantle, then a partly molten mantle and a solid, iron-rich core.			
F	mate	of Moon origin—the Moon formed 4.6 billion years ago from Earth rial thrown off when a large object collided with Earth.		
Section 3 Exploring Earth's Moon				

- A. Missions to the Moon
  - 1. Early exploration

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- a. The first Luna spacecraft, launched by the \_\_\_\_\_\_ in 1959, enabled close study of the Moon.
- b. The Ranger spacecraft and the Lunar Orbiters of the U.S. took detailed

of the Moon in the 1960s.

- c. Five Surveyor U. S. spacecrafts \_\_\_\_\_ on the Moon.
- d. Astronauts of \_\_\_\_\_ landed on the Moon in 1969.
- 2. The Clementine spacecraft was placed in lunar orbit in 1994 to \_\_\_\_\_\_ the moon's surface.
  - a. Collected data on the \_\_\_\_\_ content of Moon rocks
  - **b.** Mapped \_\_\_\_\_\_ on the Moon's surface
  - c. \_\_\_\_\_, or craters, are depressions left by objects striking the Moon.
  - d. Identified \_\_\_\_\_\_, the largest and deepest impact basin in solar system.