



5 [1] Allow 1 credit for 2.

6 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Convection currents cause rising magma to reach the surface, solidify into rock with a certain magnetic polarity, and move away from the ridge, forming a mirror image pattern on either side of the ridge.
- Convection currents cause magma to rise to the surface and form basalt, pushing the older basalt with a different magnetic polarity away from either side of the ridge.
- Convection currents cycle materials at the ridge, pushing rocks further from both sides of the ridge. The pattern of the magnetic field on each side of the ridge is a mirror image of the other.

**Item Alignment**  
**ESS - Modeling of Earth's Interior Cluster**

Item Number	Performance Expectation
1	HS-ESS2-3
2	HS-ESS2-3
3	HS-ESS2-3
4	HS-ESS2-3
5	HS-ESS2-3
6	HS-ESS2-3




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**Earth and Space Sciences  
Rating Guide  
The Effect of the Moon on Earth Sample Cluster**

- 1 [1] Allow 1 credit for an acceptable response. Acceptable responses include, but are not limited to:
- Every six hours the observer experiences a different tide height from low to high or high to low because of Earth’s regular rotation every 24 hours.
  - In a 24-hour period, the person experiences two high tides and two low tides.
- 2 [1] Allow 1 credit for 1.
- 3 [1] Allow 1 credit for 2.
- 4 [1] Allow 1 credit for October 6 *or* October 7 and a correct piece of evidence. Acceptable responses include, but are not limited to:
- The first quarter Moon phase from August 31 to September 29 takes 29 days to complete one cycle. Therefore, the time period required for any cycle of phases would be the same amount of time.
  - It takes about 29 to 30 days for a full cycle of one full Moon to the next full Moon. 29.5 days from September 7 would be October 6 or October 7.
- 5 [1] Allow 1 credit for 2.
- 6 [1] Allow 1 credit for 3.

**Item Alignment  
ESS - The Effect of the Moon on Earth Cluster**

Item Number	Performance Expectation
1	HS-ESS1-7
2	HS-ESS1-7
3	HS-ESS3-1
4	HS-ESS1-7
5	HS-ESS1-4
6	HS-ESS1-7