Name
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## **How Moons Change**

**Instructions**: Below are several **causes** related to moons' geology and environment, along with possible **effects** on their surfaces. Your task is to **draw a line** between each cause and its correct effect, or write the matching letter next to each cause. One extra effect is included that does not have a match.

- Large asteroid impacts on Callisto
- Tidal heating on lo caused by Jupiter's gravity
- 3. Subsurface ocean movement beneath Europa's ice shell
- Cryovolcanic eruptions on Enceladus
- 5. Ancient volcanic eruptions on Earth's Moon
- 6. Triton's retrograde orbit causing surface stress

- A. Water vapor and ice particles are shot into space from surface fissures.
- B. Surface becomes covered in extensive lava flows, creating bright sulfur deposits.
- C. Heavy cratered surface remains largely unchanged for billions of years.
- D. Cracks and ridges form on the icy surface.
- E. Surface shows smooth plains of cooled basalt rock in darker areas (lunar maria).
- F. Fault lines and fractures form from gravitational stress.
- G. Methane rain fills rivers and lakes. (Extra)



