Surface of the Moon
Formation of Maria.

* First, a meteor impacts the surface of the moon.

* The crater is deep enough to make it all the way through the crust and into the mantle.

* Hot lava rushes in from the mantle and floods the impact crater.

* The lava cools to make a smooth, craterless surface.
Example of paving in Maria
Near Side vs Far Side

Near Side

Far Side
Crust thickness
Moon Formation theories

Sister Theory:
The Moon formed right alongside Earth.

Problem: Where's all the Moon's iron? Composition lacking.

Fission Theory:
Earth was spinning so fast the Moon split off.

Problem: Why is the Moon's orbit inclined to Earth's rotation?

Capture Theory:
Earth's gravitational field captured the Moon.

Problem: Where did the orbital energy go? Also, rocks are too similar.
Best theory so far:

The Giant Impact Theory

Something roughly the size of Mars hit us in an oblong collision, spewing mostly mantle into space around Earth.