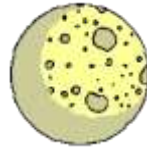


Earth's Gravity vs. Moon's Gravity

0507.12.1 Explain and give examples of how forces act at a distance.



The Earth has a greater gravitational pull than the Moon, partly because the Earth is so much bigger than the Moon. The Earth's pull is so strong that it keeps us on the ground. The Moon's pull is so weak that we are weightless there.

Do we have the same weight on the Moon? NO

Do we have the same mass on the Moon? YES

The Earth pulls everything toward its center. It is like a giant magnet. That means it has a north magnetic pole and a south magnetic pole. If you hang a magnet on a string, the north pole of the magnet will point to the Earth's north pole and the south pole of the magnet will point to the Earth's south pole!

Remember, magnets are formed when the electrons line up in the same direction. When that happens, it creates one big magnetic field.