

If gravity force does not exist on Earth then what happens?

Answer: Assuming that the gravitation will stay only under earth crust, the atmosphere will immediately fly into space due to air pressure. Without an atmosphere all the living things will die immediately and any liquid will boil and evaporate into space. There will be nothing to hold on Earth's surface living organisms; any loose objects or fluids will be thrown into space due to the spinning of Earth. Also the moon will leave its orbit.

If the gravitation will be quite lost in the planetary scale, with only nuclear and electromagnetic forces left there will be no force to aggregate mass. All matter of Earth with nothing to hold it together will disintegrate with explosive speed, because the interior of the planet is at a very high pressure. Without the counter-force of gravity, that pressure will tear the planet apart from the inside.

Such imaginary events are showing, how integral gravity is to our world. We can't live without it, and we can't afford it to change. It is one of the true constants in our life.