inspirit

Gravitational Force

Physics with ❤️ by Sarah

Gravity

- **GRAVITY:** Force of attraction between two bodies.

FACTORS THAT INFLUENCE GRAVITATIONAL FORCE:

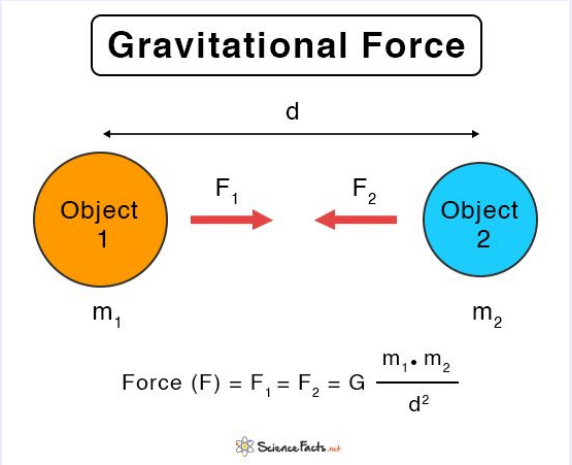
- Mass: More mass more gravity
- Distance: Gravitational force decreases with increasing distance

GENERAL POINTS TO REMEMBER:

- Gravity always attract and does not repel
- Acceleration due to gravity on the surface of the earth is 9.8 m/ S^2
- The sun and moon's gravity causes tides
- Gravitational force obeys the inverse square law

Gravitational Force Formula

source



- Gravitational force: **F**
- Mass of object 1: **m1**
- Mass of object 1: **m2**
- Distance between the objects: **d**
- Universal gravitational constant **G: 6.67 × 10-11 N·m2/kg2**