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web read a brief summary of this topic gravity also called gravitation in mechanics the universal force of attraction acting between all matter it is by far the weakest known force in nature and thus plays no role in determining the internal properties of everyday matter on the other hand through its long reach and universal action it controls the trajectories of web in physics gravity from latin gravitas weight 1 is a fundamental interaction which causes mutual attraction between all things with mass or energy gravity is by far the weakest of the four fundamental interactions approximately 10^{38} times weaker than the strong interaction 10^{36} times weaker than the electromagnetic force and 10^{29} times weaker web dec 17 2020 gravity is what holds the planets in orbit around the sun and what keeps the moon in orbit around earth the gravitational pull of the moon pulls the seas towards it causing the ocean tides gravity creates stars and planets by pulling together the material from which they are made gravity not only pulls on mass but also on light web apr 1 2000 the force of gravity acting on an object is also that object s weight when you step on a scale the scale reads how much gravity is acting on your body the formula to determine weight is source kurtus weight $m g$ where m is an object s mass and g is the acceleration due to gravity acceleration due to gravity on earth is 9.8 m/s^2 it never web may 13 2020 gravity is one of the four fundamental forces in the universe alongside electromagnetism and the strong and weak nuclear forces despite being all pervasive and important for keeping our feet web grav i ty ?grav ?t ? plural gravities 1 weight sense 1 used chiefly in the phrase center of gravity 2 a the gravitational attraction of the mass of the earth the moon or a planet for web gravity is a force of attraction that exists between any two masses any two bodies any two particles gravity is not just the attraction between objects and the earth it is an attraction that exists between all objects everywhere in the universe

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