Gravitational force worksheet

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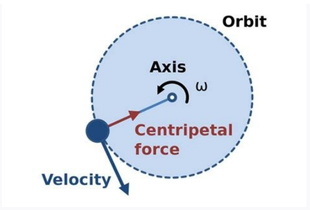
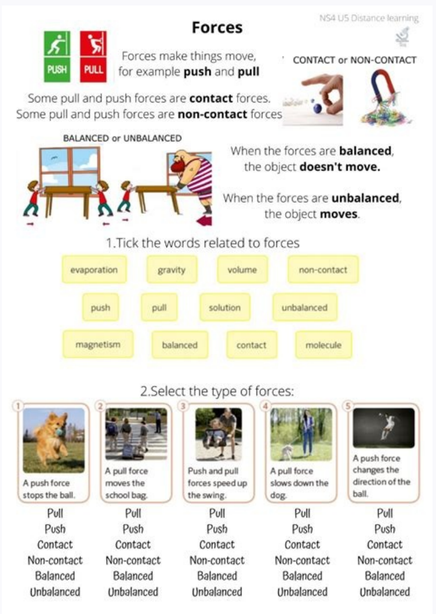
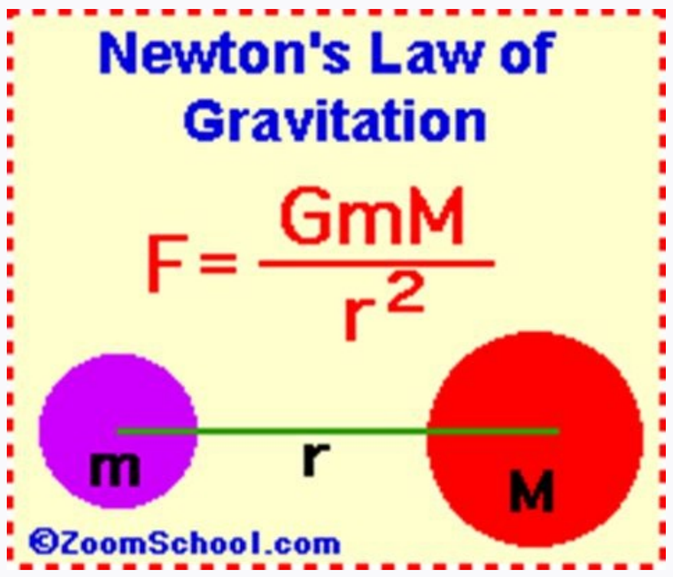




In an experiment, the acceleration due to gravity at the surface of the Earth is measured to be $9.90\ m/s^2$. Find the absolute error in the measurement using an accepted value of $9.81\ m/s^2$

Abs. Err. = |accepted value − measured value|

$$|9.81\ \tfrac{m}{s^2} - 9.90\ \tfrac{m}{s^2}| = \boxed{0.09\ \tfrac{m}{s^2}}$$



Gravity

- A type of force that pulls everything down to the ground
- You can't see it but it keeps you on Earth

Gravitational force worksheets grade 9. Answer key gravitational force worksheet answers. Gravitational force worksheet for grade 4. Gravitational force worksheet with answers. Gravitational force worksheet for grade 6. Law of gravitational force worksheet. Gravitational force worksheet middle school. Gravitational force worksheet for kindergarten.

Live worksheets > English Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close In this worksheet, we will practice using Newton's law of gravitation to calculate the force due to gravity between two massive objects. Q1: Which of the following is the correct formula for Newton's law of gravitation? A$F=G(m+m)r$ B$F=Gmmr$ C$F=Gmmr$ D$F=G(m+m)r$ E$F=Gmmr$ Q2: Titan is the largest moon of Saturn. It has a mass of 1.35×10 kg. Saturn has a mass of 5.68×10 kg. If the magnitude of the gravitational force between them is 3.43×10 N, what is the distance between the centers of mass of Saturn and Titan? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. A3.32×10 m B1.49×10 m C1.22×10 m D2.09×10 m E1.75×10 m Q3: Two asteroids, A and B, are in deep space. Asteroid A has a mass of 5.75×10 kg, and asteroid B has a mass of 1.39×10 kg. If the magnitude of the gravitational force between them is 0.370 N, what is the distance between the centers of mass of the two asteroids? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. A1.97×10 m B1.20×10 m C1.44×10 m D1.88×10 m E3.89×10 m Q4: A man, who is standing on the surface of Earth, has a mass of 72 kg. Earth has a mass of 5.97×10 kg and a radius of 6,370 km. What is the magnitude of the gravitational force between the man and Earth? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer to the nearest newton. Q5: Earth has a mass of 5.97×10 kg, and the Moon has a mass of 7.34×10 kg. The average distance between the center of Earth and the center of the Moon is 384,000 km. What is the magnitude of the gravitational force between Earth and the Moon? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. A1.98×10 N B2.73×10 N C1.98×10 N D7.61×10 N E7.61×10 N Q6: Two objects, A and B, are in deep space. Object A has a mass of 15,000 kg and object B has a mass of 26,000 kg. The distance between the centers of mass of the two objects is 25 m. What is the acceleration of object B toward object A due to their gravitational interaction? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. A4.16×10 m/s2 B1.60×10 m/s2 C4.00×10 m/s2 D6.94×10 m/s2 E2.77×10 m/s2 Q7: Two spaceships are in deep space. The distance between the centers of mass of the two spaceships is 300 m, and the force between them is 5.51×10 N. If one spaceship has a mass of 24,000 kg, what is the mass of the other spaceship? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer to the nearest kilogram. Q8: The figure shows two large rocks in outer space. Each rock has a mass of 480 kg. What is the magnitude of the gravitational force between the two rocks? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. The grid lines on the grid are spaced 1 m apart. A1.54×10 N B1.54×10 N C3.20×10 N D3.20×10 N E1.71×10 N Q9: The figure shows two large rocks in outer space. Each rock has a mass of 150 kg. What is the magnitude of the gravitational force between the two rocks? Use a value of 6.67×10 m3/kg·s2 for the universal gravitational constant. Give your answer in scientific notation to two decimal places. The grid lines on the grid are spaced 1 m apart. A7.50×10 N B1.67×10 N C3.75×10 N D2.50×10 N E5.00×10 N Q10: Which of the following relations shows how the magnitude of the gravitational force between two objects, F, varies with the masses of the two objects, m and m? A$F \propto mm$ B$F \propto m+m$ C$F \propto m \times m$ D$F \propto m-m$ E$F \propto mm$ In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Live worksheets > English Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close

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