

I'm not robot!

Chapter 1: Fundamentals of Physics

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9A End of Unit Test

9B End of Unit Test

KEY

60 miles per hour into meters per second $\left(\frac{60 \text{ mi}}{\text{h}}\right) \left(\frac{5280 \text{ ft}}{1 \text{ mi}}\right) \left(\frac{1 \text{ m}}{3.28 \text{ ft}}\right) \left(\frac{1 \text{ h}}{3600 \text{ s}}\right) = 26.82 \text{ m/s}$

130 meters per second into miles per hour $\left(\frac{130 \text{ m}}{\text{s}}\right) \left(\frac{3600 \text{ s}}{1 \text{ h}}\right) \left(\frac{328 \text{ ft}}{1 \text{ m}}\right) \left(\frac{1 \text{ mile}}{5280 \text{ ft}}\right) = 290.7 \text{ mi/h}$

1100 feet per second into miles per hour $\left(\frac{1100 \text{ ft}}{\text{s}}\right) \left(\frac{1 \text{ mi}}{5280 \text{ ft}}\right) \left(\frac{3600 \text{ s}}{1 \text{ h}}\right) = 750 \text{ mi/h}$

53 yards per hour into inches per week $\left(\frac{53 \text{ yd}}{\text{h}}\right) \left(\frac{36 \text{ in}}{1 \text{ yd}}\right) \left(\frac{168 \text{ h}}{1 \text{ week}}\right) = 320544 \text{ in/week}$

721 lbs per week into kg per second $\left(\frac{721 \text{ lb}}{\text{week}}\right) \left(\frac{0.45 \text{ kg}}{1 \text{ lb}}\right) \left(\frac{1 \text{ week}}{168 \text{ hr}}\right) \left(\frac{1 \text{ hr}}{3600 \text{ s}}\right) = 0.00054 \text{ kg/s}$

88 inches per second into miles per day $\left(\frac{88 \text{ in}}{\text{s}}\right) \left(\frac{1 \text{ ft}}{12 \text{ in}}\right) \left(\frac{1 \text{ mi}}{5280 \text{ ft}}\right) \left(\frac{3600 \text{ s}}{1 \text{ h}}\right) \left(\frac{24 \text{ h}}{1 \text{ day}}\right) = 120 \text{ mi/day}$

12080 gallons per month into liters per hour $\left(\frac{12080 \text{ gal}}{\text{month}}\right) \left(\frac{3.785 \text{ L}}{1 \text{ gal}}\right) \left(\frac{1 \text{ month}}{30 \text{ days}}\right) \left(\frac{1 \text{ day}}{24 \text{ h}}\right) = 63.49 \text{ L/h}$

27 miles per gallon into kilometers per liter $\left(\frac{27 \text{ mi}}{\text{gal}}\right) \left(\frac{1.609 \text{ km}}{1 \text{ mi}}\right) \left(\frac{1 \text{ gal}}{3.785 \text{ L}}\right) = 11.5 \text{ km/L}$

186,282 miles per second into meters per second $\left(\frac{186282 \text{ mi}}{\text{s}}\right) \left(\frac{5280 \text{ ft}}{1 \text{ mi}}\right) \left(\frac{1 \text{ m}}{3.28 \text{ ft}}\right) = 2.99868 \times 10^8 \text{ m/s}$

TEST FOR MODULE #1

- The acceleration of a car is zero. Does this mean that its velocity is also zero?
- If the velocity of a plane is reported as 100 m/sec and its acceleration is reported as -10 m/sec², is the plane speeding up or slowing down?
- What is the difference between speed and velocity?
- A physicist measures the instantaneous velocity of an object in three different places along its journey. The velocities were 2 m/sec, 4 m/sec, and 8 m/sec. She then measures the object's average velocity throughout the journey. Which of the following values is most likely to be that average velocity: 1 m/sec, 3 m/sec, or 16 m/sec?
- A person is walking in an airport at a constant velocity of 1.3 m/sec. What is the person's acceleration?
- A football player receives a kickoff and runs 98 yards straight into the end zone. After spiking the ball and doing his dance, he turns around and runs 31 yards back to his teammates for some serious celebrating. How much distance did he travel? What was his final displacement?
- A car is traveling down a one-lane country road at 21 miles/hour. Up ahead, a truck is traveling the opposite direction at 15 miles/hour. If they are 0.20 miles apart, how long will it be before they run into each other, assuming neither one of them slows down?

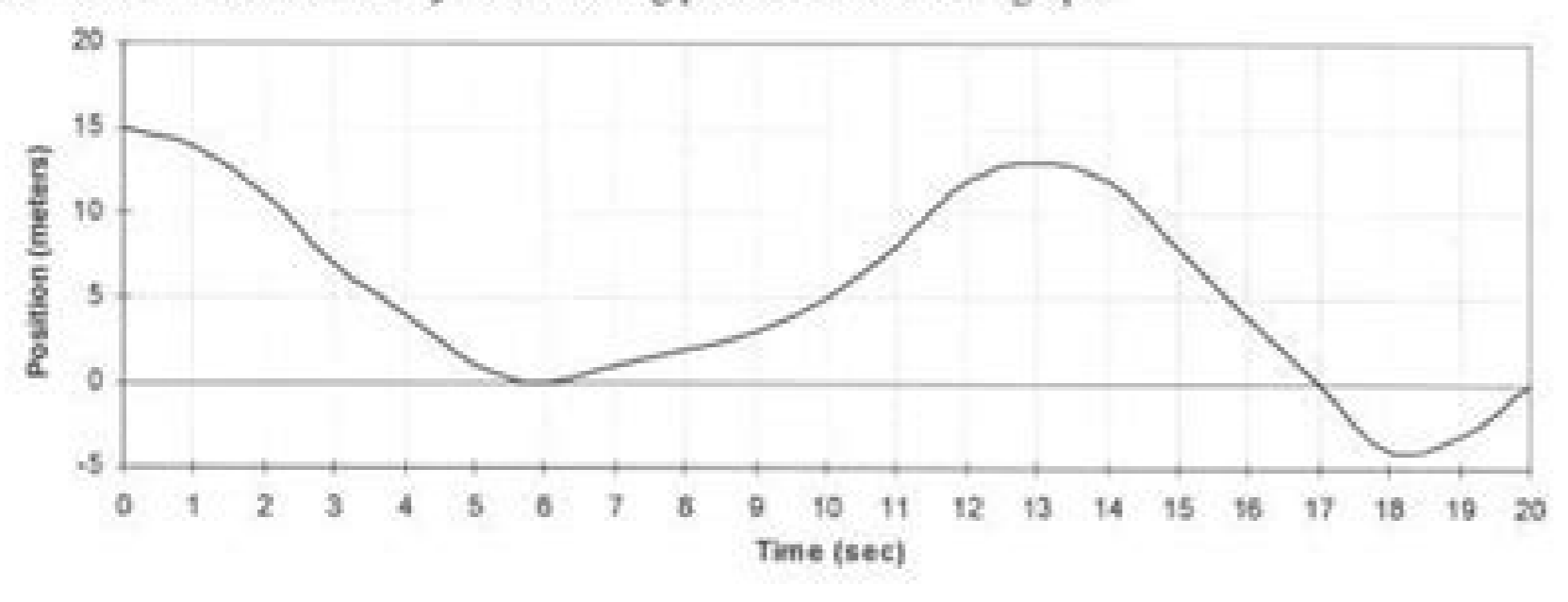
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- A car starts at rest and accelerates as quickly as possible. If the acceleration is 1.2 m/sec² and the car accelerates for 10.0 seconds, what will the car's final velocity be?

Questions 9 - 12 refer to the figure below.

A car's motion is described by the following position-versus-time graph:



- Physical and Chemical Properties
1. What is the difference between a physical change and a chemical change?
For a physical change, there is no change in chemical composition. What you start out with is the same as what you end up with.
For a chemical change, there is a change in chemical composition. What you start out with is different than what you end up with.
 2. Which type of property involves a change in the chemical structure?
Chemical property
 3. Which type of property is there no change in the chemical structure?
Physical property
 4. Which type of property do you end up with something different than what you started with?
Chemical property
 5. Which type of property do you end up with the same thing as what you started with?
Physical property
 6. What are some examples of physical properties?
Solubility
Boiling Point
Freezing/Melting Point
Viscosity
Electrical Conductivity
Density
 7. What are some examples of chemical properties?
Corrosion
Oxidation
Combustion
 8. Does the term boiling point refer to a temperature or a phase change?
Temperature
 9. Does the composition of a substance change during a phase change?
No
 10. 5.0g of substance X has a volume of 10.0 mL. What is the density of substance X?
 $5.0\text{ g} / 10.0\text{ mL} = .5\text{ g/mL}$
 11. Is the density of solid substance X the same as liquid substance X?
No
 12. While making Kool-Aid you add some sugar to some water. In this solution, sugar is the (**solute**, solvent) and water is the (solute, **solvent**)

Physical science chapter 11 test answer key. Physical science grade 12 module 11 answer key. Exploring creation with physical science module 11 test answers. Physical science grade 11 module answer key.

12 Questions | Total Attempts: 1552 Which is the weakest of the fundamental forces? A student drops a ball, and it begins to fall due to the force of gravity that the earth exerts on it. According to Newton's 3rd Law of Motion, the ball exerts an equal and opposite force on the earth. True or False The gravitational force between two objects (mass1 = 5kg, mass2 = 2kg) is measured when the objects are 10 centimeters apart. If the 5-kg mass is replaced with a 20-kg mass and the 2-kg mass is replaced with a 12-kg mass, how does the new gravitational attraction compare to the first one that was measured? The new gravitational force is 12 times larger than the old one The new gravitational force is 24 times larger than the old one The new gravitational force is 12 times smaller than the old one The new gravitational force is 24 times smaller than the old one The gravitational force between two objects (mass1 = 10kg, mass2 = 6kg) is measured when the objects are 12 centimeters apart. If the distance between them is increased to 36 centimeters, how does the new gravitational attraction compare to the first one that was measured? The new gravitational force is 3 times larger than the old one The new gravitational force is 9 times larger than the old one The new gravitational force is 3 times smaller than the old one The new gravitational force is 9 times smaller than the old one Two moons orbit two different planets, but they orbit their planets at the same distance. If the first one takes 3 months to make an orbit and the second takes 1 year, which is being subjected to the greatest gravitational attraction? The first moon experiences the greatest gravitational force The second moon experiences the greatest gravitational force Which planets are the outer planets? Mars, Saturn, Uranus, Neptune Earth, Mars, Jupiter, Saturn, Uranus, Neptune Which planet in the solar system receives the least amount of insolation? Which of the following orbits is more likely that of a comet that is relatively easy to see in the night sky? What part or parts of a comet come and go during a comet's orbit? What is the Kuiper belt considered to be a source of? What theory says that gravity is caused by the exchange of particles between objects with mass? The Bent Space & Time Theory of Gravity The Graviton Theory of Gravity Einstein's General Theory of Relativity Suppose a scientist determines that there are only two fundamental forces in nature: the electroweak force and the strong force. Which of the two current theories of gravity does this mean is true? Graviton Theory of Gravity General Theory of Relativity Natural Science Dynamics Thermodynamics Friction Force Chapters Of Physical Science Quizzes Physical Features Quizzes

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