

## Questions- Science practice test

1- Define the term "kinetic energy".

2- A car traveling at a constant velocity has a certain amount of kinetic energy. If the car's velocity is doubled, what happens to the car's kinetic energy?

3- A baseball is thrown with a velocity of 50 mph. If the mass of the baseball is 5 oz, what is the kinetic energy of the baseball in joules?

4- A box is pushed across a frictionless floor with a force of 100 N. If the box has a mass of 20 kg, what is the acceleration of the box?

5- A rock is dropped from a height of 50 meters. If the acceleration due to gravity is  $9.8 \text{ m/s}^2$ , how long does it take the rock to reach the ground?

6- A rocket is launched from the surface of the Earth with an initial velocity of 100 m/s. What is the rocket's acceleration at take-off?

7- Define the term "momentum".

8- A 10 kg object moving at a velocity of 5 m/s has a certain amount of momentum. If the mass of the object is doubled, what happens to the object's momentum?

9- A car with a mass of 1000 kg collides with a stationary car with a mass of 500 kg. If the first car has a velocity of 30 m/s and the second car has a velocity of 10 m/s after the collision, what is the total momentum of the system before and after the collision?

10- A skier moving at a velocity of 20 m/s comes to a stop in 5 seconds. What is the skier's acceleration?

# Nd Grade Science Practice Test

**Joacim Rocklöv**

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$$\frac{d}{dx} \left( \frac{f(x)g(x)}{g(x)^2} \right) = \frac{f(x)g'(x) - f'(x)g(x)}{g(x)^2}$$

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