

Science Vocabulary Review

Motion

Name _____

Period _____

Due Date _____

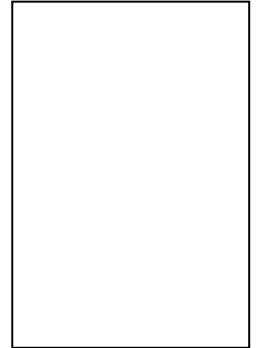
Science Vocabulary

Motion Vocabulary

SPEED – noun

Definition- _____

Picture that jogs my memory



Circle the examples of units of SPEED.

meters per second

liters / second

s / m

inches / day

hour per meter

cm / yr

Write YES on the line before the sentence if it correctly uses the word SPEED.

Write NO if it is not correct.

- 1) _____ The SPEED of an object can be measured but not predicted.
- 2) _____ If an object doesn't move for a period of time then its SPEED must be zero.
- 3) _____ Any object's SPEED can be calculated by dividing the distance traveled by the time taken.

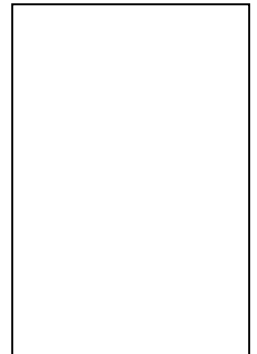
Science Vocabulary

Motion Vocabulary

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INSTANTEOUS SPEED – noun

Definition- _____



Circle the examples of INSTANTEOUS SPEED.

exact speed at exact time

speedometer

timer

bus ride to school

metronome

clock

Write YES on the line before the sentence if it correctly uses the word INSTANTEOUS SPEED.

Write NO if it is not correct.

- 1) _____ An object's INSTANTEOUS SPEED cannot be zero.
- 2) _____ A thoroughbred racehorse's peak speed is an INSTANTEOUS SPEED.
- 3) _____ The police officer used his radar gun to register my INSTANTEOUS SPEED.

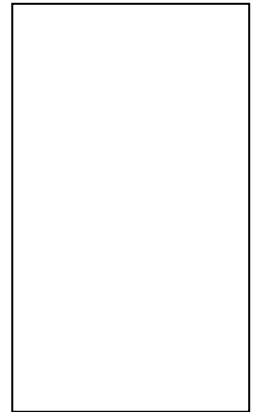
Science Vocabulary

Motion Vocabulary

CONSTANT SPEED – noun

Picture that jogs my memory

Definition- _____



Circle the correct facts about CONSTANT SPEED.

motion of the same distance in different amounts of time

always the same

motion of different distance in the same amount of time

never changes

motion of same distance in the same amount of time

may change

Write YES on the line before the sentence if it correctly uses the word CONSTANT SPEED.

Write NO if it is not correct.

- 1) _____ A metronome ticks at a CONSTANT SPEED.
- 2) _____ CONSTANT SPEED changes from one speed to another speed often.
- 3) _____ Cruise control is designed to keep your car moving at a CONSTANT SPEED.

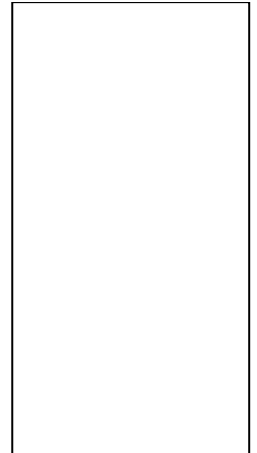
Science Vocabulary

Motion Vocabulary

AVERAGE SPEED – noun

Picture that jogs my memory

Definition- _____



Circle the correct facts about AVERAGE SPEED.

speed is constant throughout

speed is instantaneous

includes stops and starts

total time traveled per total distance moved

total distance moved per total time traveled

Write YES on the line before the sentence if it correctly uses the word AVERAGE SPEED.

Write NO if it is not correct.

- 1) _____ The AVERAGE SPEED is a distance per time ratio.
- 2) _____ An AVERAGE SPEED is useful when trying to figure out how long it will take a person to drive a certain distance because it doesn't account for all the stops that they'll make for the red lights.
- 3) _____ The AVERAGE SPEED means the speed is always normal and there are no times when the speed is faster or slower than normal.

Science Vocabulary

Motion Vocabulary

REFERENCE POINT – noun

Definition- _____

Picture that jogs my memory

Circle the correct facts about REFERENCE POINTS.

Important for controlling experiment

can be more than one location on an object

Determines exact position to start/stop motion

can only be one point on an object

**Write YES on the line before the sentence if it correctly uses the word REFERENCE POINT.
 Write NO if it is not correct.**

- 1) _____ A REFERENCE POINT is a point to which other things are compared.
- 2) _____ When conducting motion experiments, REFERENCE POINTs are optional.
- 3) _____ The REFERENCE POINT on the cart from science class was the rear wheel axle.

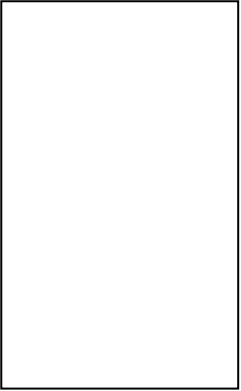
Science Vocabulary

Motion Vocabulary

Picture that jogs my memory

DISTANCE - TIME GRAPH – noun

Definition- _____



Circle the correct facts about DISTANCE - TIME GRAPHS.

also called motion graphs

distance, the dependent variable, is plotted on the x axis

used to find speed

distance, the independent variable, is plotted on y axis

time plotted on y axis

time plotted on x axis

Write YES on the line before the sentence if it correctly uses the phrase DISTANCE - TIME GRAPHS.

Write NO if it is not correct.

1) _____ A DISTANCE-TIME GRAPH allows us to visually see the motion of objects.

2) _____ Only one speed may be plotted on a single DISTANCE - TIME GRAPH.

3) _____ We can use a DISTANCE - TIME GRAPH to compare the speed of objects.

Science Vocabulary

Motion Vocabulary

SLOPE OF A LINE ON A DISTANCE - TIME GRAPH – noun

Picture that jogs my memory

Definition- _____

Circle the correct facts about the SLOPE OF A LINE ON A DISTANCE - TIME GRAPH.

slope is $d \div t$

slope is $t \div d$

slope is $d \times t$

slope on distance-time graph is the same as speed

slope on distance-time graph is not the same as speed

Write YES on the line before the sentence if it correctly uses the phrase SLOPE OF A LINE ON A DISTANCE - TIME GRAPH.

Write NO if it is not correct.

- 1) _____ If the units are the same, faster speeds will have a steeper SLOPE OF A LINE ON A DISTANCE-TIME GRAPH than slower speeds.
- 2) _____ Constant speed is indicated as a constant SLOPE OF A LINE ON A DISTANCE-TIME GRAPH.
- 3) _____ Zero speed is indicated as a vertical line with an undefined SLOPE OF A LINE ON A DISTANCE-TIME GRAPH.

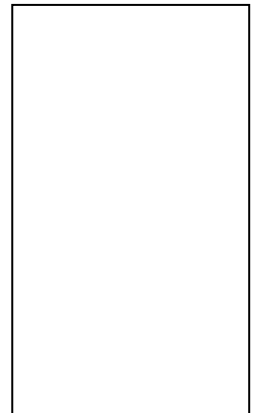
Science Vocabulary

Motion Vocabulary

Picture that jogs my memory

VELOCITY – noun

Definition- _____



Circle the correct facts about VELOCITY.

distance traveled per unit time

distance traveled in a certain direction per unit time

same units as speed

different units than speed

Write YES on the line before the sentence if it correctly uses the word VELOCITY.

Write NO if it is not correct.

- 1) _____ The VELOCITY of our school bus moving bus was 55 mph away from the school.
- 2) _____ VELOCITY must be a value greater than zero.
- 3) _____ A person's velocity that is not moving is undefined.

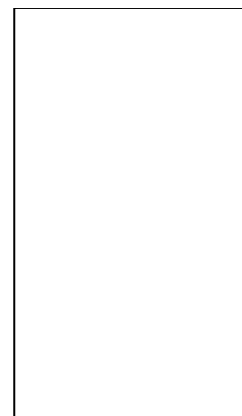
Science Vocabulary

Motion Vocabulary

ACCELERATION – noun

Picture that jogs my memory

Definition- _____



Circle the correct facts about ACCELERATION.

always means speeding up.

can mean slowing down

the change in speed in an amount of time

can never be zero

the change in velocity in an amount of time

can change direction

Write YES on the line before the sentence if it correctly uses the word ACCELERATION.

Write NO if it is not correct.

- 1) _____ As you walk out of the science class you ACCELERATE because you change your speed.
- 2) _____ As you walk out of the science class you ACCELERATE because you change your velocity.
- 3) _____ If a car is moving at a constant rate, it is not accelerating.

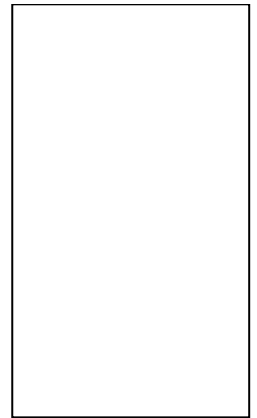
Science Vocabulary

Motion Vocabulary

MOMENTUM – noun

Picture that jogs my memory

Definition- _____



Circle the correct facts about **MOMENTUM**.

Momentum is the same as *mass x speed*.

Momentum is the same as *mass x velocity*.

The momentum of a fast moving fire truck is greater than the momentum of a slow moving fire truck.

The momentum of a fast moving bicycle is less than the momentum of a slow moving bicycle.

Write **YES** on the line before the sentence if it correctly uses the word **MOMENTUM**.
Write **NO** if it is not correct.

- 1) _____ The **MOMENTUM** of a SUV stopped at a stop light is greater than the **MOMENTUM** of a skateboarder moving at 5 meters per second.
- 2) _____ If the mass of two objects are the same, the velocity determines the objects **MOMENTUM**.
- 3) _____ It's harder to stop an elephant than a mouse because the pachyderm has more **MOMENTUM**.