Name _____

Date _____ Period/Teacher _____

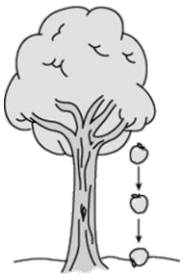
6th Science

S.C.O.P.E.S.

Students Creating Ownership Practicing Everyday Science

2.5

1. A student watches an apple fall from a tree branch to the ground. At which point does the apple have the **LEAST** amount of gravitational potential energy?



A. just after it hits the ground

B. before it hits the ground

C. before it falls from the branch

D. just after it falls from the branch

6.8A

2. A balance is used to measure the mass of an object. A beaker of powder is placed on the balance. The mass of the beaker and powder is 65 grams. We know that an empty beaker has a mass of 48 grams. What is the mass of the powder in grams?

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⓪	⓪	⓪	⓪		⓪	⓪
①	①	①	①		①	①
②	②	②	②		②	②
③	③	③	③		③	③
④	④	④	④		④	④
⑤	⑤	⑤	⑤		⑤	⑤
⑥	⑥	⑥	⑥		⑥	⑥
⑦	⑦	⑦	⑦		⑦	⑦
⑧	⑧	⑧	⑧		⑧	⑧
⑨	⑨	⑨	⑨		⑨	⑨

6.4A

3. How do unbalanced forces acting on an object affects it motion when the object is at rest? What if it is moving?

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6.8B

4. Julia is in a car with her father. They turn right and the car accelerates. What is happening to the car?

A. The car is slowing down

B. The car is stopping suddenly

C. The car is changing direction and speeding up

D. The car is traveling at a constant speed

6.8B

5. Match the correct term to the example given.

unbalanced balanced

A leaf resting in the grass begins to move when the wind blows. The wind exerts a(n) _____ force on the leaf, causing it to move.

Two groups are playing tug of war. The rope is not moving in any direction. The forces acting on the rope are _____ with a net force of 0 Newtons.

6.8B

6. VOCABULARY – Define average speed and give an example of average speed.

Average Speed –

Example –

6.8C

7. What is the difference between speed and average speed?

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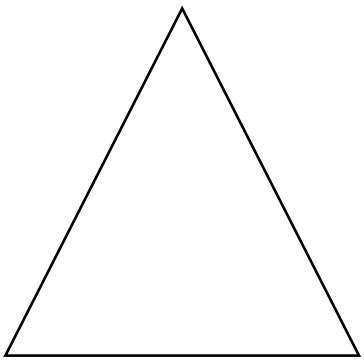
6.8C

8. Juan lives 100 meters away from his friend Bill. What is Juan's average speed if he reaches Bill's home in 50 seconds?

A. 500 m/s
B. 2 s/m
C. 2 m/s
D. 25 m/s



6.8C