



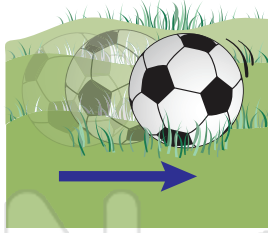
# Newton's Laws of Motion

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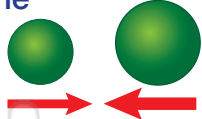
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Fill in the blank.

\_\_\_\_\_ is the process of an object **changing its place or its position.**

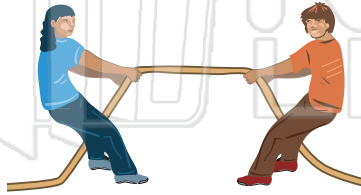


6 **Newton's law of universal gravitation** states that **any two objects exert a gravitational force on each other.** What does the strength of the gravitational force between two objects depend upon?



- a. the chemical make-up of the objects
- b. the size and shape of the objects
- c. the mass of the objects and the distance between them

2 What is a **push or pull** upon an object? Circle it.



7 What must happen in order for **work to have been done?**



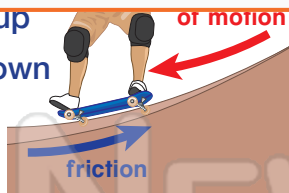
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## PREVIEW

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- 4 What happens when an object is in motion?
  - a. an object can speed up
  - b. an object can slow down
  - c. an object can go twice as fast

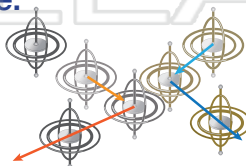


**equal strength in the opposite direction** on object A. Which of **Newton's laws** does this example support?

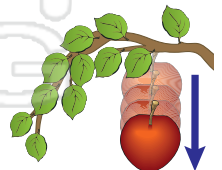
1<sup>st</sup>      2<sup>nd</sup>      3<sup>rd</sup>



5 **Objects in motion tend to stay in motion.** Motion only changes if an unbalanced outside force causes change. This **resistance to change of motion** is called \_\_\_\_\_.



10 Name a force that can affect objects without physical contact.





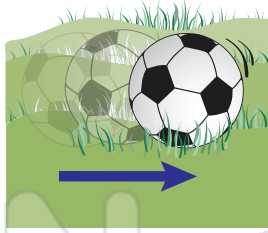
# Newton's Laws of Motion - Answer Key

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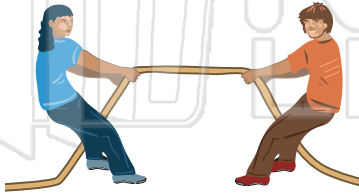
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Fill in the blank.

Motion is the process of an object **changing its place or its position.**

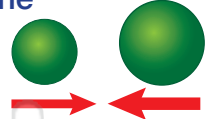


2 What is a **push or pull** upon an object? Circle it.



inertia      motion      force

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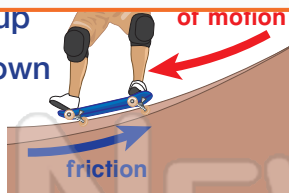


## PREVIEW

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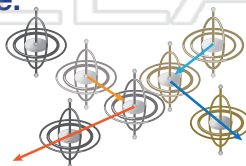


**equal strength in the opposite direction** on object A. Which of **Newton's laws** does this example support?

1st       2nd       3rd

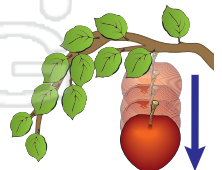


5 **Objects in motion tend to stay in motion.** Motion only changes if an unbalanced outside force causes change. This **resistance to change of motion** is called



inertia

10 Name a force that can affect objects without physical contact.



open-ended: magnetism, gravity