

Name: \_\_\_\_\_

# Intervention 8.2.3 Energy Transfer

1. What is the definition of friction?
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Draw and label a colored picture of something that has A LOT of friction.

Draw and label a colored picture of something that has LITTLE friction.

2. What is the definition of kinetic energy?
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Draw and label a colored picture of something that has A LOT of kinetic energy.

Draw and label a colored picture of something that has LITTLE kinetic energy.

# Video: Friction

1. Friction is a force that results whenever two surfaces are \_\_\_\_\_ together.
2. Friction turns work into \_\_\_\_\_.
3. If you tie a \_\_\_\_\_. It's held together by friction.
4. Friction \_\_\_\_\_ moving things and turns motion energy into \_\_\_\_\_.
5. In \_\_\_\_\_ there is almost no friction.
6. Your fingerprints are necessary for you to \_\_\_\_\_ things.
7. Friction comes from \_\_\_\_\_.
8. The more electrons repel each other the \_\_\_\_\_ friction there is.
9. When skis or skates slide over ice or snow the friction creates a layer of \_\_\_\_\_ which \_\_\_\_\_ friction.
10. Friction is necessary when you are on a bike to stay \_\_\_\_\_.
11. Cleats or spikes on shoes make \_\_\_\_\_ friction because they provide a \_\_\_\_\_ surface.
12. Rolling friction is \_\_\_\_\_ than sliding friction.
13. Ball bearings purpose is to create \_\_\_\_\_ friction.
14. In order for a train to move on the tracks there must be friction between the \_\_\_\_\_ and the \_\_\_\_\_.
15. Heat shields on a space craft are necessary when it reenters the earth's atmosphere because at the high speed of entry air will \_\_\_\_\_.
16. Crickets use friction to \_\_\_\_\_.
17. Mucous on slugs is remarkable because it's both \_\_\_\_\_ and \_\_\_\_\_.
18. When air molecules \_\_\_\_\_ into each other they cause friction.