

**PREVIEW**

*Introduction to Friction  
For Special Education*



*By  
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# Friction

By Christa Joy



What is friction?

- Friction is a force that occurs when 2 surfaces oppose each other.



Friction also produces heat.



Friction makes it possible:

- To walk
- Ride a bike
- Sit in a chair
- Hold books



Friction slows things down!!



Example

- Rub your hands together to produce friction.



19 page book

# Vocabulary board

friction	stops	slows down	speeds up	produces heat

Some things will increase friction and some things will help to decrease friction. Sort the following pictures into the correct column.

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# Sorting activities



# Circle map


**Also in BW**

## Friction Experiment

### Materials:

2 cookie sheets  
Sand paper  
Block  
Large washer  
Book  
Domino  
Cup  
Scissors  
Pencil Box  
Puzzle piece  
Ruler

### Set Up:

Gather 2 cookie sheets. Cover one with sandpaper.  
Gather objects listed in chart below to slide down cookie

### Experiment:

Place both cookies sheets at similar angles. Have student sliding objects from the top down the cookie sheet. Student record observations after each object.

### Observations:

We slid objects down 2 surfaces. One was covered with sand paper; one was a smooth metal tray. Circle the **faster** surface for each object in the chart.

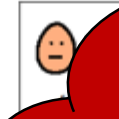
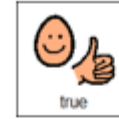
block	sandpaper	metal tray
washer	sandpaper	metal tray
book	sandpaper	metal tray
domino	sandpaper	metal tray
cup	sandpaper	metal tray
scissors	sandpaper	metal tray
pencil box	sandpaper	metal tray
puzzle piece	sandpaper	metal tray
ruler	sandpaper	metal tray

### Conclusion:

1. Things slide faster on the \_\_\_\_\_ surface.
2. Sandpaper has \_\_\_\_\_ friction.
3. \_\_\_\_\_ has \_\_\_\_\_ friction.

Experiment & Recording Sheet

1. True or False. Friction is everywhere.



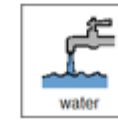
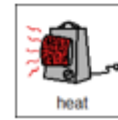
2. Circle the 2 types of friction.



3. If something is round or has wheels, what type of friction occurs?

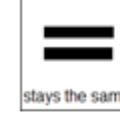


4. What does friction produce?

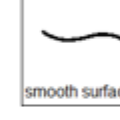
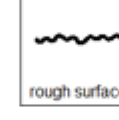


- 10 question assessment
- 2 versions
- Also in BW

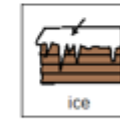
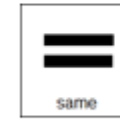
5. As the amount of friction increases, the speed of an object:
  - a. stays the same
  - b. increases
  - c. decreases



6. Which has more friction, a rough surface or a smooth surface?



7. Which would have more friction if on the road, dirt or ice?



8. When you wipe the table clean, what type of friction is occurring?

