Week 7, Day 1

Write down the data from your class investigations.

<table>
<thead>
<tr>
<th>Without Wheels</th>
<th>With Wheels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial 1</td>
<td></td>
</tr>
<tr>
<td>Trial 2</td>
<td></td>
</tr>
<tr>
<td>Trial 3</td>
<td></td>
</tr>
</tbody>
</table>

Week 7, Day 2

Use the chart above to answer the questions below.

1. Put the distances the car or truck rolled without wheels in order from least to greatest.

2. Put the distances the car or truck rolled with wheels in order from least to greatest.

3. What is the difference between the least distance the car or truck traveled without wheels and the greatest difference the car or truck traveled without wheels?

4. What is the difference between the least distance the car or truck traveled without wheels and the greatest difference the car or truck traveled with wheels?

5. What is the shape of the wheel on the car? _____________ Are all wheels this shape? _____________ Are all round things wheels? ________________
   Can you think of something round that is not a wheel? ________________
Week 7, Day 3

A doorknob is a simple machine you use every day. It is a wheel and axle. The wheel is connected to the axle. The axle is a center post. When the wheel moves, the axle does, too. Opening a door by turning the axle with your fingers is very hard. By turning the wheel, or doorknob, you use much less force. The doorknob turns the axle for you. The doorknob makes it easy because it is bigger than the axle. You turn the doorknob a greater distance, but with much less force. A doorknob may not look like a wheel and axle, but look at the path it makes when it is turned. The path makes a circle like a wheel.

1. The word wheel in this passage means--
   ○ An axle
   ○ A doorknob
   ○ A tire
   ○ A force

2. What is the main idea of this passage?
   ○ Simple machines make our work easier.
   ○ A wheel is bigger than an axle.
   ○ The path of a doorknob is a circle, just like a wheel.
   ○ A doorknob is a simple machine that makes our work easier.

3. Why do you think the steering wheel on a large truck is bigger than the steering wheel on a small car?

   ________________________________________________________________

   ________________________________________________________________

Week 7, Day 4

Make a list of 6 different wheels and axles you can find in your classroom or your house.

1. ______________________________________ 2. ______________________________________
3. ______________________________________ 4. ______________________________________
5. ______________________________________ 6. ______________________________________

Week 7, Day 5

Gears are "toothed" wheels that work together to regulate speed in machines. How are gears and wheels and axles alike? Name three ways that wheels and gears are alike.