



### Investigation 1: Small Ferris Wheel, continued



#### Observations:

1. Look at the way the swings turn around the blue rod when the ferris wheel turns. What makes it possible for the swings to turn?

#### **Procedure, Part 2:**

1. Add more pieces to one of the seats to make it bigger.
2. Observe the effect the bigger seat has on the ferris wheel while it is moving.
3. Record your observations.
4. Observe the effect the bigger seat has on the ferris wheel while it is at rest (not moving).
5. Record your observations.
6. Add weight to other seats.
7. Record your observations.

***Circle the Wheel & Axle in the picture of the ferris wheel.***

#### **Observations:**

1. How does making one seat bigger change the way the ferris wheel turns?

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2. What happens when you add weight to other seats?

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#### **Conclusion:**

Why do you think ferris wheel operators have to pay close attention to the size of the passengers?

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