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## Part Four

### Conducting the Experiment and Collecting Data

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After the Roller Coaster is built you will be given five ball bearings of different masses. These bearing will represent the masses of the roller coaster cars.

***Read all of the following direction carefully. Ask yourself these questions:***

1. What am I trying to find out?
2. How will I measure what I find out?
3. How will I record what I measure?

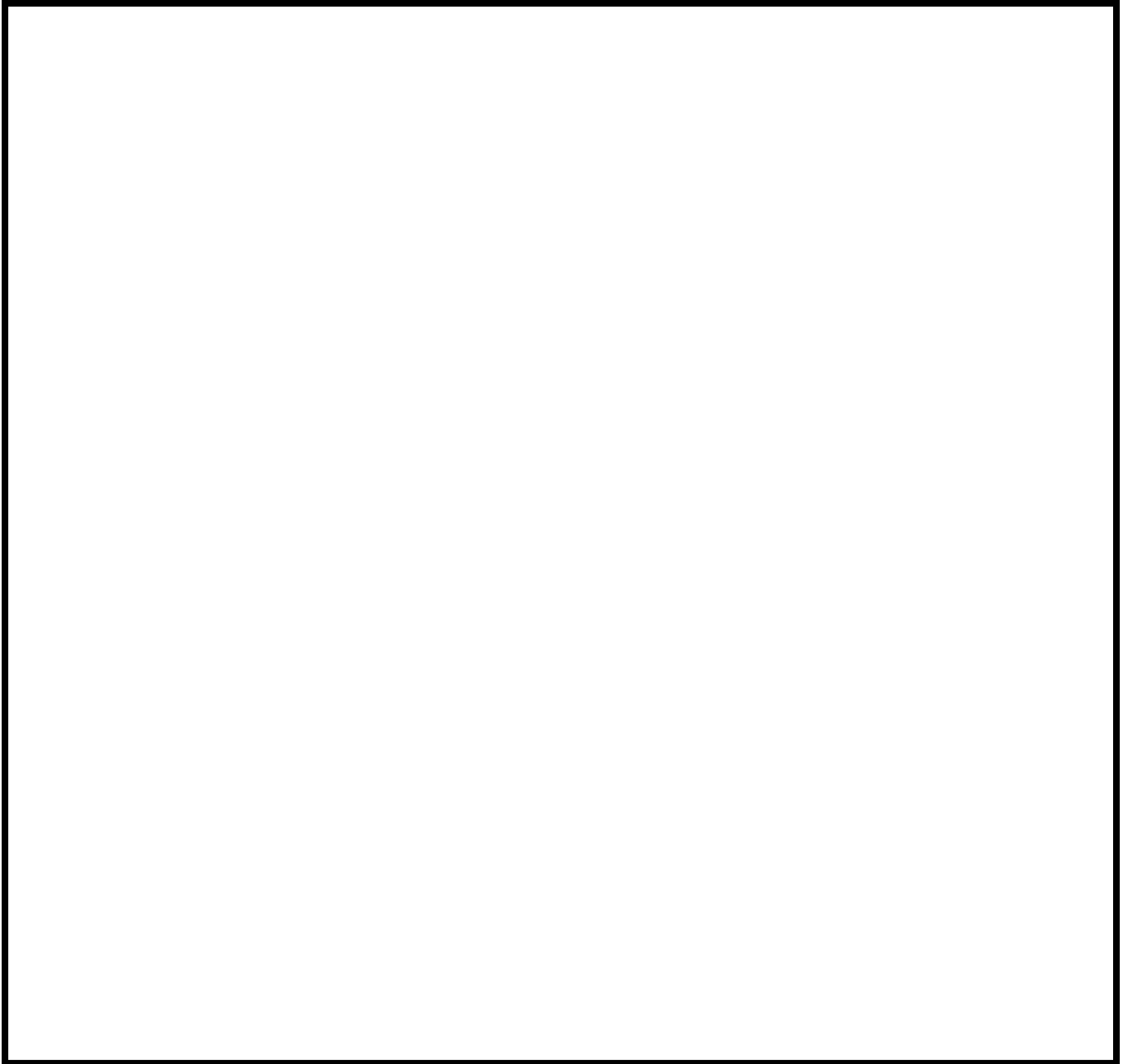
Make a chart to record the data you collect as you test your roller coaster **BEFORE** you begin collecting data. Have your teacher initial the chart.

***Procedure for testing the roller coaster:***

1. Begin with the smallest bearing.
2. Place the bearing at the starting point on your roller coaster.
3. At the signal, release the bearing and time how long it takes to move from the starting point to the end point of the roller coaster.
4. Record this data in your chart.
5. Repeat steps 2 – 4 for a total of five times.
6. Repeat steps 2 – 5 with each bearing.
- 7.

Do not count trials that are incomplete – the bearing falls off or d does not move down the entire track.

***Data Chart:***



*Teacher Initials:*