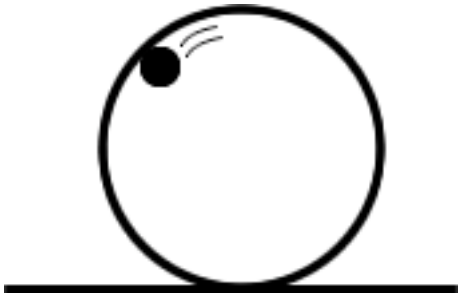
Free Body Diagrams **Mastery Assignment**

This assignment needs to be completed turned in and check using answers in the blue notebook before taking the mastery test.
Answer these questions on a separate sheet of paper.

1. List the six principles of friction

2. Which kind of friction offers more resistance, static or kinetic?

3. A ball is rolling around a loop-de-loop on a toy track. Assuming friction and no acceleration along this part of the track. Draw a free body diagram of the forces acting on the ball.



4. Draw two free bodies for a car pulling a trailer at a constant velocity to the left.

5. Fill in the chart below using the forces we learned about in this chapter.

Force name	Description of when the force is present.	Variable used for the force
Tension		
Friction		
Weight		
Net force		
Centripetal force		