Learning Objectives:

- Describe the factors that determine whether two objects will balance each other
- Predict how changing the position of a mass on the balance will affect the motion of the balance
- Use a balance to the find the masses of unknown objects

Use the simulation here:
els724.com > K7-8 Physics > 5 Mechanics > Sim: Levers

Directions:

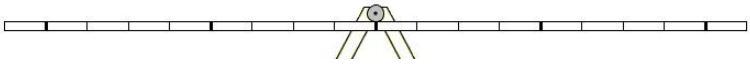
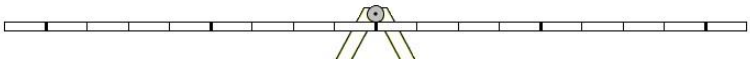
1. ***Explore*** the ***Balancing Act*** simulation with your partner. As you explore, ***talk*** about what you find with your partner (About 5 minutes).
Make bulleted notes here:

2. Is there more than one way to get two objects with **identical masses** to balance? How?

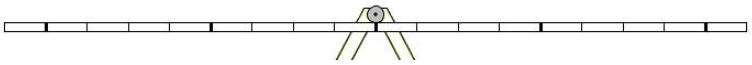
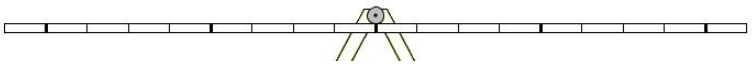
3. Next, try to get two objects with **different masses** to balance.

Try to ***describe*** at least **2 different** ways that you were able to balance them and ***draw*** them below.

Make sure you ***label*** the **masses** and the **distance to each mass from the center** (pivot point).

1.	
2.	

5. ***Draw*** two examples of balancing a single mass on one side with two other masses
Make sure you ***label*** the **masses** and the **distance to each mass from the center** (pivot point).

1.	
2.	

6. For your pictures in Question 5, **draw in the forces** from each mass

7. Try to draw what will happen next if the box on the left is **45 kg** and the box on the right is **60 kg**