1. Balanced or Unbalanced? A ball sitting on a table, with no movement.

2. Name two steps of the engineering design process.

3. When the person on the back skateboard pushes the person on the front skateboard, what happens?

4. If you increase the mass on the skateboard, what happens to the distance, if the force stays the same?
3. They went in opposite directions. One forward, one backwards.

4. The distance traveled is less.

1. Balanced

2. Test, improve, plan, create, define problem, imagine
5. What elements went into creating a successful rocket?

6. What was the key factor in balancing the whale watch?

7. During arm wrestling, when did you experience an unbalanced force?

8. Who was the scientist who developed the three laws of motion?
7. When moving back and forth to see who could win.

5. Balanced, light nose cone, overall light mass

8. Newton

6. Communication with teammates
9. During tug of war, does there have to be the same amount of people on each side to win?

10. How did the angle of the rocket launcher affect where your rocket landed?

3rd Grade Motion and Stability Quiz-Quiz-Trade Cards
9. No. Position, strength and weight can all be a factor.

10. Discuss.