Year 6 Science: Drawing forces with arrows, and how levers help

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. A force arrow for a 20 N push is 4 cm long. How long should the arrow for a 40 N push be?

2. A cup sits still on a bench. Name the two forces on it and say how they compare.

3. A bike rolls along at a steady speed. The forward push is 60 N. How big is the backward force of friction and air resistance together?

4. A wheelbarrow is a lever. What is its pivot?

5. Why is a long-handled spade easier for turning soil than a short trowel?

Fix the mistake

6. Correct this statement: "A still book has no forces on it."

7. Correct this statement: "All force arrows can be the same length as long as they point the right way."

8. Correct this statement: "If something is moving, the forces on it cannot be balanced."

9. Correct this statement: "To make a lever easier, push close to the pivot."