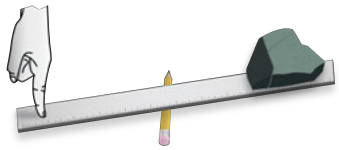
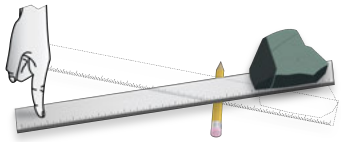
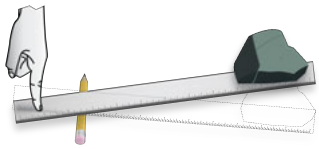
LAB: THE CLEVER LEVER

Part 1:

Record your findings about the force you applied with your finger.

	FORCE applied by finger	DISTANCE load traveled
System #1 	☑ baseline ☐ > baseline ☐ < baseline	☑ baseline ☐ > baseline ☐ < baseline
System #2 	☐ baseline ☐ > baseline ☐ < baseline	☐ baseline ☐ > baseline ☐ < baseline
System #3 	☐ baseline ☐ > baseline ☐ < baseline	☐ baseline ☐ > baseline ☐ < baseline

Part 2:

Now, go back to observe something different in your three lever systems. Instead of focusing on the amount of **force** you **apply**, measure the distance that the **load** moves when you **apply** the **force**.

As you did with **force**, use System #1 as your baseline. Then mark on the table whether the movement in System #2 and #3 is greater than or less than the baseline.

TURN AND TALK

What is the pattern you observed? Does the pattern have anything to do with **work** (**force** x distance)?