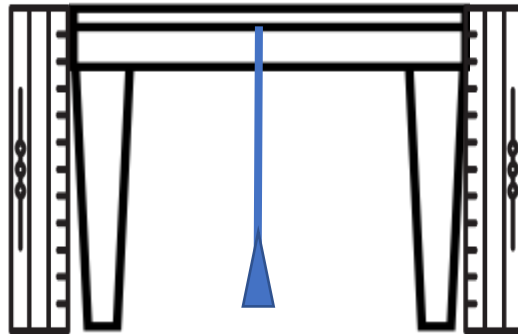
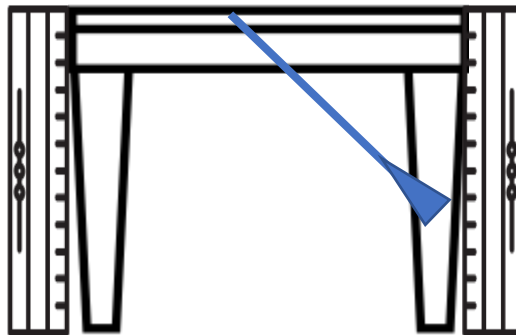


# Forces and Motion

## The Motion of a Pendulum



Now pull back your pendulum and record the height. Draw arrows to indicate push, pull, and motion.



It was \_\_\_\_\_ high. When it was released, it swings to the following height on the other side: \_\_\_\_\_

What happened to the pendulum after time?

## See Saws

Draw kids on the see saw so that the side on the ground has more than the other side. Then use arrows to indicate what happens to the see saw to show forces.



Now draw your own see saw to show kids on each side so that it is balanced.

Draw a balanced see saw and use arrows to show what happens when the kids on the left side push up with their legs.

## Half Pipe

In the first simulation, there is no friction. Draw the skateboarder where he starts and finishes. Explain how long this will happen.



In the second simulation, there is friction. Draw the skateboarder where he starts. Place an x where he ends up on the first run. Then place an x on both sides where he ends up on the second run. Explain what will happen over time.