# 100 GARVER CENTENNIAL

# Dabble with Drops

## Words to know:

1. Gravity – A force which tries to pull two objects toward each other
2. Lever – A rigid bar resting on a pivot, a simple machine used to help move a heavy or firmly fixed load with one end when pressure is applied to the other
3. Fulcrum – The point on which a lever rests or is supported and on which it pivots

## Tasks:

1. 1. With a partner, build an element that causes the monster truck to roll down a ramp and off the table
2. 2. Add an element that makes the falling truck cause something else to fall or move
3. 3. Build a lever that launches an object

# Tinker with Toppling

## Words to know:

1. Row – Dominoes balanced on their ends in a line
2. Curve – A smoothly flowing line with no sharp edges
3. Topple – A chain reaction fall initiated by only touching the first object

## Tasks:

1. 1. Topple a row of 20 dominoes
2. 2. Build and topple a row that creates a V-shape
3. 3. Build and topple a row in that forms a circle

# Fiddle with Force

## Words to know:

1. Force – The strength or energy as an attribute of physical action or movement
2. Speed – How fast or slow an object is moving
3. Mass – The amount of matter or substance that makes up an object

## Tasks:

1. 1. Build a single ramp and roll a steel ball, golf ball, ping pong ball, and bouncy ball. Which one rolls farthest?
2. 2. How does changing the angle of the ramp affect the distance?
3. 3. Roll a ball down the ramp to knock over a wooden block. Which ball could knock it down?