

Rocket Engineering

Facilitator: Don Plumlee

Newton's Laws of Motion

Why do your toes sting after kicking a soccer ball? Which laws apply?

What happens to this pencil sitting on the desk? Which laws apply?

What happens to the pencil dropping from my hand? Which laws apply?

How does a rocket move up into the air? Which laws apply?

Draw a Picture

What forces act on the rocket?

What makes a good rocket?

Design Requirements/Metrics

Materials:

2 liter bottle, sticks, scissors, glue gun, masking tape, duct tape, scotch tape, popsicle sticks, tin foil, toothpicks, tagboard, paper, cardboard, straws, markers, ribbon, feathers, clay, baseball, tennis balls, ping pong balls, golf balls, rocks, fabric, wooden dowels

Reflection:

How did you team meet the requirements?

What would you have done differently?