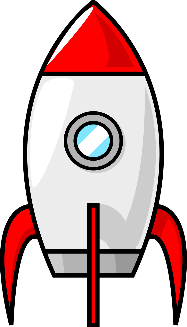
**Rocket Challenge - Mission 5:**

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Nose Cone

# **In a team of 4 people, create an awesome rocket.**

# **Your rocket will need a cone and at least 3 fins.**

Fin

**Team:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

**Step 1:** Design a rocket – In the space below sketch a design or plan for your rocket based on the materials provided by Ms. Lauder.

**Step 2:** Build the Rocket. Document it with a picture or video. Post this to the padlet – see blog for link.

**Step 3:** Draw a diagram of all the energy involved with your rocket. Remember the Law of Conservation of Energy!

Get the stamp of approval from Ms. Lauder before proceeding to the next steps!

**Step 4:** Design a formula based on your knowledge of energy to figure out how much energy will be transferred when the rocket lands.

Get another stamp of approval from Ms. Lauder!

**Step 5:** Make sure you’ll know which is your team’s rocket, make it awesome!

**Step 6:** When the class is ready, we’ll all go and launch the rockets together. Be sure to document it with a video or picture! And as scientists make 2 observations about how your rocket flies, and anything you might want to fix!