

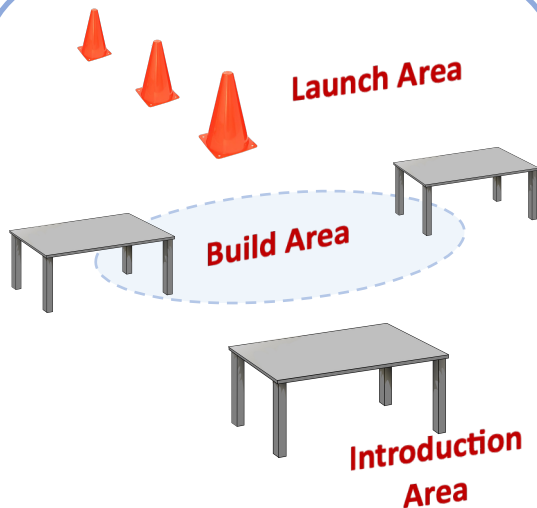
## Materials

- ✓ Cardboard Tubes
- ✓ Rubber Bands
- ✓ Duct Tape - Blue
- ✓ Card Stock - Yellow
- ✓ Distance Cones
- ✓ Distance Labels
- ✓ Scissors

Tip: Be sure to set up the activity with sufficient space for safe rocket testing.



Families explore **force and motion** by building and testing rockets. Collecting rocket flight data allows families to **observe, record, and analyze** numerical data.



Room Layout

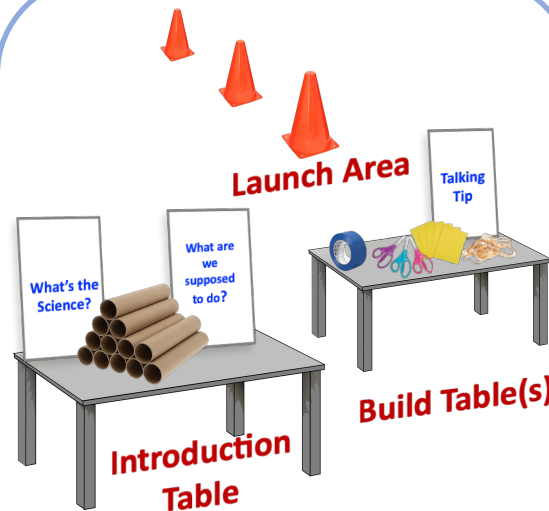
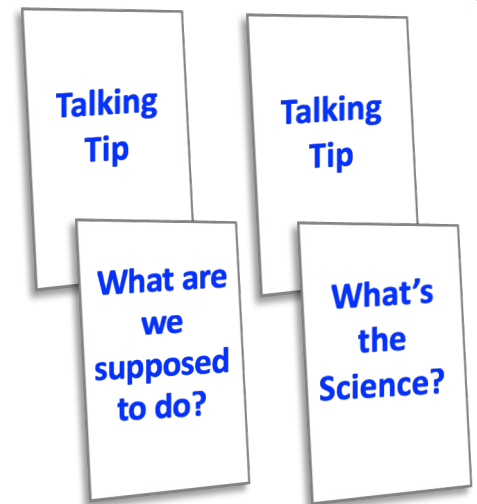


Table Setup



Signage

3

After build is complete, families test their designs and record results on **Event Guide** graph.



Families use materials and **Event Guide** to build rockets.

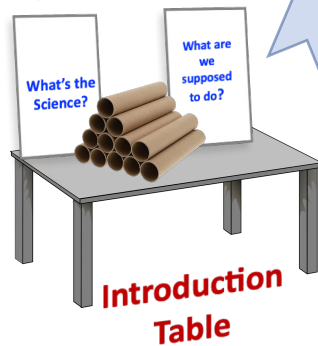
2



Build Tables

1

Families are provided with details on the challenge.



Introduction Table

1

## Introduction Table

Provide activity directions to families, either through a facilitator or a tabletop sign. Provide **one tube per child** for designing and building their rocket. Direct families to use the **Event Guide** to facilitate engagement.

2

## Build Tables

Place “**Talking Tips**” and “**What’s the Science?**” signs on Build tables to encourage conversation. Facilitators should circulate among families, encouraging them to use their **Event Guide** for each specific activity.

3

## Launch Area

Place labeled distance cones at designated intervals (ft). Ensure **Launch Area** has sufficient space for rocket testing. Facilitators can encourage rocket **redesign after testing**.