



Mallownaut Survival Test: High G-Force

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Description:

- Students were given the task of designing and building a mid-power rocket to test the survivability of a high G-force flight. Once preliminary flights were conducted, students designed a flight suit that would lead to the survival of the mallownaut.



Materials: G-Force Test

- Mid-power rocket parts
- Mallownaut
- Metal BBs, pellets etc.
- PocketLab

Materials: Air rockets

- Copy Paper
- Duct tape
- Air compressor
- Compressed air launch rail
- Craft foam
- Hot glue gun with glue sticks
- Glow sticks (night launches)

Goals:

- Design and build a model rocket that can be safely launched
- Analyze and interpret data to guide the design process
- Design a space suit for a mallownaut to ensure survival during flight



Results:

After observing the effects of G-forces had on the mallownauts, students designed space suits that limited the amount of BB/pellet penetration, allowing the mallownaut to survive the flight.

