

ROCKETRY PROJECT GUIDE

Getting Started: If you need help choosing an appropriate rocket kit, please contact the project superintendent, Mark Hansen, at (989) 872-3480. He has a pretty good idea what is available locally. The multi-stage rockets for older youth will probably need to be ordered online as they are not easy to find in the area. He also has examples for every category. Call for more information if interested.

Project Hints: If a kit is used for the project, please do not discard the box the components came in. These should be neatly flattened to be displayed with the rocket.

Beginner: Level 1 Rocket Kit (balsa fins/cardboard body)

Project Book Including:

- Rocket Plans
- Building Journal
- Flight Record (engine used, estimated altitude)
- Conclusion (what was good, bad, and could be improved)



Intermediate: Level 2 Rocket Kit (more complex i.e. payload, multi-stage)

Project Book Including:

- Rocket Plans
- Building Journal
- Flight Record With Statistics (engine(s) used, payload, altitude, anticipated result, actual result)
- Conclusion (what was good, bad, and could be improved)

Advanced: Level 3 Rocket Kit (advanced kit or self designed)

Project Book Including:

- Research for Rocket Design
- Rocket Plans
- Detailed Building Journal
- Flight Record with Statistics (engine(s) used, payload, altitude, anticipated result, actual result)
- Modification Log
- Conclusion (what was good, bad, and could be improved)

Expert: Designed, built, and tested by youth or team

Project Book Including:

- Scope of Project (what is the goal for this rocket)
- Research for Rocket Design
- Rocket Plans
- Detailed Building Journal
- Flight Record With Detailed Flight Statistics (type of engine, propellant used in engine especially if engineered engine, calculated acceleration, thrust produced, burn duration, estimated rate of descent, payload, altitude, anticipated result, actual result)
- Modification Log
- Conclusion (what was good, bad, and could be improved)



