

7th Grade Research Paper/Project Ideas and Booklet Information

Throughout the multi-week construction period, each seventh grade student will be required to work on and complete a research paper/project, which will be one part of a science competition booklet. If they are working as part of the team they may turn in a single project but both students are expected to contribute to the final project. The booklet must include final blueprints of their project and will be worth the equivalent of one test grade. The specific requirements are listed below. The bulk of the research needs to be completed at home, although if a student finishes building her competition project before the allotted time has elapsed, she may work on her booklet during class. The paper/project needs to be on a topic that is relevant to the science competition project being constructed. Some suggestions for research topics are listed below. The booklet is due the Friday after the science competition on May 6th.

Possible Research Topics for Individual Projects:

1. **Glider:** 1) A description of aerodynamics or aeronautical engineering. 2) The evolution of flying machines. 3) The history and science of flight. 4) Research NASA missions.
2. **Egg Drop:** 1) Discuss the recycling process or specifically the recycling process of paper (what percentage of paper or other materials are recycled, what happens to recycled paper or other materials, etc.). 2) Discuss natural resources, what is a natural resource, how is it acquired, is there an unlimited supply? 3) Use of cotton and natural fibers vs. synthetic materials in clothing. Are there advantages or disadvantages to one or the other?
3. **Kite Building:** 1) Research and discuss different types of kite models. Are there advantages or disadvantages to specific designs? 2) How long have kites been around and what cultures were the earliest users? 3) Have kites been used for anything other than recreational purposes?

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Christian G. Meyer



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