



# Chugach Science Share

## Expectations for Student Projects

● Project Step	<b>Expectations for Elementary School Students</b>
● Ask a question.	Choose a question that you can answer through performing a simple experiment.
● Do background research.	Refer to resources such as: <ul style="list-style-type: none"> <li>● Books targeted to elementary audience</li> <li>● Appropriate web resources</li> <li>● Encyclopedias for 3rd grade and above</li> </ul>
● Construct a hypothesis (make a prediction). Test the hypothesis by doing an experiment.	<ul style="list-style-type: none"> <li>● In grades K-2, follow basic steps to do an experiment. The investigation can be based on what you can observe.</li> <li>● In Grades 3-6, take measurements and collect accurate data. Try to design your own simple experiment or add innovations to a known experiment.</li> <li>● Advanced 4<sup>th</sup>-6<sup>th</sup> graders may understand the concept of a fair test, changing only one variable at a time.</li> </ul>
● Analyze the data and draw a conclusion.	<ul style="list-style-type: none"> <li>● In all grades, collect data in a table or write down observations.</li> <li>● In all grades, use your data and observations as evidence to answer a scientific question.</li> <li>● For grades 3-6, provide a simple graph and do straightforward calculations, such as finding the average.</li> </ul>
● Communicate the results. ***	<ul style="list-style-type: none"> <li>● In grades K-2, a typical student writes basic information about the project. Among the older in this group, write one or two sentences per section. Among the youngest, drawings are acceptable in place of text.</li> <li>● In grades 3-6, write information describing each step of the scientific method performed.</li> </ul>
● Write an abstract.	<ul style="list-style-type: none"> <li>● An abstract is a short summary of your work 100 to 250 words long.</li> <li>● At the Alaska State Science and Engineering Fair, 4th-6th graders are recommended to write an abstract, but it is not required until 7th grade.</li> </ul>

\*\*\*Teachers request that you cite references and use your own handwriting.