The capstone project for 6th grade will consist of 3 major components; an experiment that the student will conduct following the scientific method, a visual report that demonstrates the findings of their experiment, and a presentation in which they share the steps and results of their experiment.

<table>
<thead>
<tr>
<th>Experiment Procedure:</th>
<th>Report</th>
<th>Science Fair Presentation</th>
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</thead>
<tbody>
<tr>
<td><strong>Scientific Method:</strong></td>
<td><strong>Expository Writing:</strong></td>
<td><strong>Presenting Skills:</strong></td>
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</table>
| Grade 1  
Develop a question that can be answered through experimentation  
(SC 6.1.1.a &b &c &f, LA 6.4.1.a) | Grade 3  
Organized according to sequence of the scientific method  
(LA 6.2.2.c, 6 Trait - Ideas & Organization) | Grade 3  
Appropriate use of eye contact  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Develop a hypothesis  
(SC 6.1.1.a &b &c &f) | Grade 3  
Report is fact driven.  
(LA 6.2.2.c, 6 Trait - Ideas) | Grade 3  
Appropriate use of posture  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Determine Independent and Dependent variables  
(SC 6.1.1.a &b &c &f) | Grade 3  
Report is written with audience targeted at students  
(LA 6.2.2.b, 6 Trait - Word Choice) | Grade 3  
Appropriate use of gestures  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Create a sequence of repeatable steps to test hypotheses  
(SC 6.1.1.a &b &c &f) | Grade 3  
Report uses appropriate transitions  
(LA 6.2.1.e, 6 Trait - Organization) | Grade 3  
Appropriate use of facial expression  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Report on findings  
(SC 6.1.1.a &b &c &f, LA 6.3.1.a) | Grade 3  
Report clearly identifies hypotheses, variables, results, and conclusion  
(SC 6.1.1.a &b, 6 Trait - Organization) | Grade 3  
Appropriate use of volume  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Assess accuracy and necessary changes to experiment or hypotheses  
(SC 6.1.1.a &b &c &f) | Grade 3  
Report uses standard grammar and spelling  
(T1, LA 6.2.1.e, LA 6.2.2.a, 6 Trait - Conventions) | Grade 3  
Appropriate use of rate  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Perform test 3 times to test accuracy | Grade 3  
Appropriate citations (as needed)  
(L-2, T-1, LA 6.4.1.b) | Grade 3  
Correct demonstration of experiment  
(L2, LA 6.3.1.c) |

**Science Fair Board:**

| Grade 1  
Follow steps created in above section  
(L2) | Grade 3  
Appropriate Title for Experiment  
(L.1, C2, T1, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Appropriate use of expression  
(C1, L2, LA 6.3.1.b) |
| Grade 1  
Record the experiment through using pictures  
(T1, LA 6.3.1.c) | Grade 3  
Big Question  
(L1, C2, T1, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Hypotheses  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |
| Grade 1  
Accurately measure results using appropriate unit (cm, kg, etc.)  
(MA 6.2.5.b.e) | Grade 3  
Sequence of Steps  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Sequence of Steps  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |
| Grade 1  
Perform test 3 times to test accuracy | Grade 3  
Identification of variables  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Identification of variables  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |
| | Grade 3  
Photos of experiment in action  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Photos of experiment in action  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |
| | Grade 3  
Chart showing findings: measurements/analysis  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Chart showing findings: measurements/analysis  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |
| | Grade 3  
Conclusion comparing results and hypotheses  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) | Grade 3  
Conclusion comparing results and hypotheses  
(C1, C2, SC 6.1.1.a &b &c &f, LA 6.2.1.f) |