### Project Overview

<table>
<thead>
<tr>
<th><strong>Name of Project:</strong></th>
<th>Get-Mart Consumer Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subject/Course:</strong></td>
<td>Science</td>
</tr>
<tr>
<td><strong>Teacher(s):</strong></td>
<td>E Frank</td>
</tr>
<tr>
<td><strong>Grade Level:</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>4 Weeks, 1st Quarter</td>
</tr>
<tr>
<td><strong>Other subject areas to be included, if any:</strong></td>
<td>Math, Language Arts</td>
</tr>
</tbody>
</table>

**Project Idea**
Summary of the issue, challenge, investigation, scenario, or problem:

Get-Mart Memo- Students will choose a specific product to test three versions of that product, two name brands and one store brand. Get-Mart would like the students to test their store product against the name brand products so that they can create a new store-brand campaign.

**Driving Question**
Which consumer products are most reliable?

**Content and Skills Standards to be addressed:**
- SPI 0707.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables.
- SPI 0707.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment.
- SPI 0707.Inq.4 Draw a conclusion that established a cause and effect relationship supported by evidence.
- SPI 0707.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.

**21st Century Skills**
To be explicitly taught and assessed (T+A) or that will be encouraged (E) by project work, but not taught or assessed:

<table>
<thead>
<tr>
<th>Skill</th>
<th>T+A</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collaboration</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Design and Perform Experiment: Lab Report Template &amp; Lab Report Rubric</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>Problem Solving- create a Lab Report Protocol to test product reliability</td>
<td>X</td>
</tr>
<tr>
<td>Presentation</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Power Point Explaining Experiment Results for &quot;Get-Mart&quot; Executives</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Project Management</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Manage group and individual time and participation in project</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Critical Thinking:</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Design, Perform and Evaluate Experiment</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Products and Performances**

<table>
<thead>
<tr>
<th><strong>Group:</strong></th>
<th>Research summary with Data Table</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Written report of testing protocols and hypothesis</td>
</tr>
<tr>
<td></td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
<td>Defense of test results</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Individual:</strong></th>
<th>Lab safety worksheets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Scientific Method worksheets</td>
</tr>
<tr>
<td></td>
<td>Quizzes- Scientific Method &amp; Lab Safety</td>
</tr>
</tbody>
</table>

**Presentation Audience:**

- Class: X
- School: 
- Community: 
- Experts: 
- Web: 
- Other: X (teachers)
**Entry event to launch inquiry, engage students:** Read a copy of consumer reports to class. Give them an email/memo example from “Get-Mart” wanting them to compare their store brand items to other name brand items so that they can create a new add campaign for the “Get-Mart” store brand. Findings will be presented to “Get-Mart” executives, concerned citizens, and critical lab sponsors.

### Assessments

#### Formative Assessments (During Project)

- Quizzes/Tests-
  - Scientific Method Quiz
  - Lab Safety Quiz

- Journal/Learning Log

- Preliminary Plans/Outlines/Prototypes

- Rough Drafts

- Online Tests/Exams

- Other:

#### Summative Assessments (End of Project)

- Written Product(s), with rubric:
  - Group Lab Report Protocol Final Draft- use Template & Rubric

- Oral Presentation, with rubric
  - “Collaboration & Presentation” Rubric

- Multiple Choice/Short Answer Test

- Essay Test

- Other:

### Resources Needed

**On-site people, facilities:** Science Teacher- Science Content

IT Department- use of software: iMovie, Garage Band, Keynote (student choice)

LA Teacher- how to outline a reading

**Equipment:** Dependent on student designs and items tested

**Materials:** Dependent on student designs and items tested

**Community resources:**

### Reflection Methods

- (Individual, Group, and/or Whole Class)
  - Journal/Learning Log
  - Whole-Class Discussion
  - Fishbowl Discussion
  - Focus Group
  - Peer Evaluation

- Other:

© 2008 Buck Institute for Education
### Methods

**Methods**

- (Individual, Group, and/or Whole Class)

#### Survey

- "Project Presentation Audience Feedback" form
- "Self-Reflection on Project Work" form
- "Teacher’s Post-Project Review" form

#### Other:

- "Project Presentation Audience Feedback" form
- "Self-Reflection on Project Work" form
- "Teacher’s Post-Project Review" form

---

*****Additional Grades- to be taken randomly for each group & individual throughout the project***

- "Group Observation Checklist" (G)
- "Self-Management Self-Assessment” (I)
- "Self-Management Teacher Assessment” (I)

Estimated Grade Totals for entire project = 10 (I) + 8 (G) + 2 (I) for AA#1 & AA#2

© 2008 Buck Institute for Education
<table>
<thead>
<tr>
<th>Knowledge and Skills Needed by Students to successfully complete culminating products and performances, and do well on summative assessments</th>
<th>Scaffolding / Materials / Lessons to be Provided by the project teacher, other teachers, experts, mentors, community members</th>
</tr>
</thead>
</table>
| **Scientific Method Procedures** | • Notes  
• Sponge Bob Worksheet (Scientific Method practice)  
• Apple Observation (done in LA?)  
• Scientific Method Quiz |
| **Lab Safety Procedures** | • Discuss good practices  
• Read & Outline “Safety First” pages of textbook  
• Lab Safety Worksheet  
• BR- Power Point Activities  
• Lab Safety Quiz |
| **Scientific Report** | • Teach how to write a report detailing information  
• Teach how to create a lab report (use lab report template & rubric)  
• Review how to write a complete conclusion  
• Peer editing  
• Teacher evaluation of final draft |
| **Power Point/Keynote and Excel/Numbers** | • Instruct how to use Excel/Numbers to create lab report data chart and graph  
• Instruct how to use Power Point/Keynote to create a presentation to share project information |
| **Group Contract** | • Instruct how to create a complete group contract that all students can agree upon |
|----------------|----------------|----------------|----------------|----------------|
| **Activity** | **Activity** | **Activity** | **Activity** | **Activity** |
| **Project Teams announced (use Project Grouping Plan)** | **Finalize Team Contract, TL submit by Edmodo, Print copies for all students in each group** | **L: Scientific Method Part 1- Question, Hypothesis, Materials** | **BR- Lab Safety Power Point slides of Pics** | **HW- NONE** |
| **TT- create a team contract using template & google.docs or typewith.me** | **- Explanation of major project rubrics: Project Management Log- Group Tasks, Project Work Report- Individual & Group, Self-Management Rubric (Self & Teacher Assessment)** | **L: View & Discuss Lab Report Template & Rubric** | **L: Scientific Methods Part 2, Test Experiment, Variables, Data collection, Conclusion** | **HW- Finish Team Contract (don’t Print!)** |
| **TT- Brief explanation of project expectations, use “Frank Scientific Inquiries Corporation” Task List/ Timeline** | **TT- begin discussing team product selection & criteria** | **TT- create Question, Hypothesis, materials list by using Lab Report Template as a guide in google.docs or typewith.me** | **TT- Continue Lab Report: detailed procedures that indicate safety procedures (example-**eye safety**) ??** | **HW- Study for Sci Method Quiz** |
| **EE- “Get-Mart Memo” from Exec.** | **Project Teams announced (use Project Grouping Plan)** | **TT- use rubric to define roles, task lists for members & project, pick a product & post the 3 versions of products on Edmodo Blog (supplies due by Monday, identify who is bringing what)** | **HW- Team Contract Signed by group members and parents (paper copy)** | **HW- Read & Outline Lab Safety Procedures submit by Edmodo.com** |
| **EE- View Consumer Reports & Discuss** | **EE- View Consumer Reports & Discuss** | **TT- Begin Outline for HW as a class use “Lab Safety Outline Doc.pages” as template** | **GW- Finish Team Contract (don’t Print!)** | **GW- Study for Sci Method Quiz** |
| **EE- Know/Need to Know on Wall Wisher** | | | | |

**Grades:** (I)- 3; (G)- 2

© 2008 Buck Institute for Education
# Project Calendar

**Project Name:** “Get-Mart”  
**Start Date:** 8-23-10  **Estimated End Date:** 9-17-10

## Project Week 2

<table>
<thead>
<tr>
<th>Monday (Day 6: 8-30-10)</th>
<th>Tuesday (Day 7: 9-1-10)</th>
<th>Wednesday (Day 8: 9-2-10)</th>
<th>Thursday (Day 9: 9-3-10)</th>
<th>Friday (Day 10: 9-4-10)</th>
</tr>
</thead>
</table>
| **Quiz- Lab Safety (I)** | TT- Switch procedures document with another group for editing & Identification of Safety Procedures  
- Use peer comments to edit Lab Report  
- Turn in Rough Draft of Lab Report to Edmodo  
- **(G)***All supplies DUE*** | **Quiz- Scientific Method (I)** | TT- continue experiment & recording Data  
- Begin to finalize report with graph/chart/table of data & conclusion, refer to Lab Report Rubric  
- (begin planning presentation for the “Get-Mart” Executives if finished testing- refer to PowerPoint Presentation Planning Guide & PowerPoint Rubric)  
- **(G)***Due Date for Testing*** | TT- finalize report with graph/chart/table of data & conclusion, refer to Lab Report Rubric  
- Begin creating presentation for the “Get-Mart” Executives, refer to PowerPoint Presentation Planning Guide & PowerPoint Rubric | TT- finalize report with graph/chart/table of data & conclusion, refer to Lab Report Rubric  
- Begin creating presentation for the “Get-Mart” Executives, refer to PowerPoint Presentation Planning Guide & PowerPoint Rubric |
| HW- Maratonite Wkst (I) | HW- Study Scientific Method Notes, Run Tests at home | HW- Run Tests at home | HW- Run Tests at home | HW- Run Tests at home |

**Grades:** (I)- 3; (G)- 1

---

© 2008 Buck Institute for Education
## Project Calendar

**Project Name:** “Get-Mart”  
**Start Date:** 8-23-10  
**Estimated End Date:** 9-17-10

### Project Week 3

|----------------|----------------|----------------|----------------|-----------------|
| IT - finalize report with graph/chart/table of data & conclusion & turn in Final Draft of Lab Report to Edmodo (G)  
- Switch report with a new group & begin testing other group’s product for verification of procedures & outcomes  
- Create new lab report for other group’s product: hypothesis, data collection and conclusion  
- Create procedures for testing at home schedules & responsibilities outline in lab report | IT - Continue other group testing & data collection  
(Begin presentation for the “Get-Mart” Executives if finished testing other group’s product- refer to PowerPoint Presentation Planning Guide & PowerPoint Rubric) | IT - Continue other group testing & data collection  
- Finalize other group lab report & submit to Edmodo (G) & give a paper copy to original group  
- Examine both reports & begin presentation for Get-Mart Executives using the data collected from both groups running of the experiment, use storyboard doc (Pages) in typewith.me to create presentation  
- PowerPoint Presentation Planning Guide Template & Rubric for presentation, Identify & document presentation tasks & roles for each member using Rubric  
- Final draft of storyboard submitted to edmodo (G) | - Examine both reports & begin presentation for Get-Mart Executives using the data collected from both groups running of the experiment, use storyboard doc (Pages) in typewith.me to create presentation  
- PowerPoint Presentation Planning Guide Template & Rubric for presentation, Identify & document presentation tasks & roles for each member using Rubric  
- Final draft of storyboard submitted to edmodo (G) | HW- Run Tests at home  
HW- Run Tests at home  
HW- Run Tests at home  
HW- Work on presentation storyboard  
HW- Finalize storyboard (if not already finished) |

**Grades:** (I)- 0; (G)- 3

---

## Project Calendar

**Project Name:** “Get-Mart”  
**Start Date:** 8-23-10  
**Estimated End Date:** 9-17-10

### Project Week 4

---

© 2008 Buck Institute for Education
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Final draft of storyboard submitted to edmodo</td>
<td>- Record &amp; practice presentation (&quot;Collaboration &amp; Presentation&quot; Rubric &amp; &quot;Power Point Presentation&quot; Rubric)</td>
<td>- Record &amp; practice presentation (&quot;Collaboration &amp; Presentation&quot; Rubric &amp; &quot;Power Point Presentation&quot; Rubric)</td>
<td>- View presentations: &quot;Project Presentation Audience Feedback&quot; Wkst - &quot;Collaboration &amp; Presentation&quot; Rubric-Assessment by Teacher (I) - &quot;Power Point Presentation&quot; Rubric-Assessment by Teacher (G)</td>
<td>((add this day if needed to view presentations)) - View presentations: &quot;Project Presentation Audience Feedback&quot; Wkst - &quot;Collaboration &amp; Presentation&quot; Rubric-Assessment by Teacher - &quot;Power Point Presentation&quot; Rubric Assessment by Teacher</td>
</tr>
<tr>
<td>- Begin recording presentation (&quot;Collaboration &amp; Presentation&quot; Rubric &amp; &quot;Power Point Presentation&quot; Rubric)</td>
<td>- Presentation Day Checklist</td>
<td>- Presentation Day Checklist</td>
<td></td>
<td><em><strong>Teacher’s Post-Project Review Form</strong></em></td>
</tr>
<tr>
<td>HW- identified presentation tasks</td>
<td>HW- identified presentation tasks</td>
<td>HW- NONE (identified presentation tasks)</td>
<td>HW- “Self-Reflection on Project Work” Wkst (I)</td>
<td>HW- NONE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades: (I)- 2; (G)- 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>