Manufacturing Chocolate

By studying the whole chocolate cycle, student are able to connect to the manufacturing process.

**Curriculum/State Standards**
Science- Using technology today plants and growth Social Studies- People Working Together Past and Present- Near and Far Daily Life & Influences Markets Economic Decisions Language Arts- Graphic organizing Key Ideas & Details Compare & Contrast more than one version Identify story elements- character, plot, sequence... Integration of Knowledge and Ideas Research to build on Current Knowledge Presentation of Knowledge and Ideas Reading With Fluency Technology- use of internet for research and project

**Overview**
Students read Charlie and the Chocolate Factory. They had a chance to find hidden Golden Tickets in candy bars. They learned about the manufacturing process both past and present, then forming their own assembly line to produce a chocolate product. Since they read Charlie and the Chocolate Factory while we were studying the process, they made self to text connections with the book. They were able to understand the power and influence of advertising as well.

The students got to earn a chance to find a golden ticket. During this time I saw a decrease in negative behaviors, increase in reading minutes and completed homework.

When the time came for them to make chocolate creations using the melting and molding process, they were very excited to implement what they had just learned. Having a hands on project made the objectives so much more meaningful.

This project carried over into another project. They were so proud of the foundation it laid and the prior knowledge they had going into a new unit on business.

**Objectives**
The students will identify the manufacturing process both past and present. The students will identify the parts of a plant with emphasis on the cocoa bean plant. The students will identify modern technology used in the manufacturing process.

The students will identify past and present ways companies advertise products.

The students will identify types of media used in advertising both in the past and present.

The students will compare and contrast Charlie and the Chocolate Factory book to the old version of the movie.

**Materials**
posterboards construction paper Wonka chocolate bars peanut butter powdered sugar candy molds white chocolate melts milk chocolate melts markers glue sticks crayons

**GRADE LEVEL**

**ARTS**

**LANGUAGE**

**MATH**

**SCIENCE**

**HISTORY**

**SOCIAL STUDIES**

**3 WEEKS**

$216 TOTAL BUDGET

**THIS WINNING PROJECT IDEA SUBMITTED BY:**

Lisa George
City Day Community School
Dayton, OH
Manufacturing Chocolate

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Readiness Activity
Reading Charlie and the Chocolate Factory
Researching factories past and present
Research on the coca bean

Strategies/Activities
Description - This project is a fully integrated unit. The students will learn about the manufacturing process, both past and present. They will learn about equipment used, jobs, advertising and learn about the pros and cons of developing technology. They will learn about plants with an emphasis on the cocoa bean. They will learn about where the beans come from, the manufacturing process that turns them into chocolate and how it is made into candy and used in other products. The class will learn about how companies put ads, contests... out to get us to buy their product. We will learn about media influence today and from the past and discuss how current technology impacts our decisions. They will also be reading Charlie and the Chocolate Factory then watch the movie. After the movie they will compare the book to the movie-characters, sequence, details... Students will make their own candy in the classroom. (Will have had prior lessons on chemical changes. This will build on their prior knowledge.) We will use the Internet to tour a chocolate factory then our class will make a product and design “ads” as if we were selling our product. We might actually have a Friday sale and sell the candy they make to other students. During this unit, the students will have chances to earn a Wonka bar of chocolate. I will hide 5 golden tickets in them. The winners can cash them in for something in the class treasure box.

Culminating Activity
Research chocolate products and uses for chocolate, grades of chocolate, factories- past and present.

Evaluation Method
1. Students will make a flow chart to demonstrate the manufacturing process of the cocoa bean.
2. Students will either write a commercial or make a series of ads. (Their choice) 3. Students will make a foldable graphic organizer identifying parts of the cocoa plant. 4. Each student will have a mini workbook for each chapter of the book. It covers character development, plot, prediction, writing traits, grammar subjects such new vocabulary, similies... This will be due at the end of the unit. 5. Students will make a poster about 1 piece of equipment or technology used in the manufacturing process either from the past or the present. He/she will present to the class. 6. Students will use a T chart to compare and contrast a character of choice from the movie and the book.