

# COIN Project: What Do We Want From You?

Date Due \_\_\_\_\_

Report should be:      Typed: 12 pt font                      Double spaced  
                                 In order by section                                      Underline the section titles

Cover Page:    Include project title, student name, course name, hour, school name, date

Coin Specifications: Data Table

Coin Design: COLOR picture minimum 5 times the actual size of your coin

Introduction: 7-10 sentences  
Introduce your coin.  
Compare your design with the current 50-cent or half-dollar coin.  
Describe your coin and include the principle reasons for choosing the materials(s).  
Discuss your coin's use and if it will work in vending machines.

Material Design:  
5-8 sentences  
Provide details on the source of the raw materials needed to produce your coin.  
(Melting point, reactivity, durability, etc.)  
Discuss the materials mining and processing.  
Be sure to clearly state the chemical process used  
(Hydrometallurgy, pyrometallurgy, slip casting, resin casting etc.)  
Estimate the long term availability of the resources.  
Discuss methods used to discourage counterfeiting.

Life Cycle of the Coin:  
6-9 sentences or a life-cycle diagram  
Analyze the life cycle of your coin.  
Include:            How long is the coin expected to last in general use?  
                         Will the coin materials be recycled or reused?  
                         How will the materials be disposed of?

Cost Analysis:  
7-9 sentences or 3-5 sentences with a table of costs  
List all costs for your coin  
                         Include: mining, materials, production, processing, disposal, workers and equipment  
Will the total cost be less than the value of the coin itself?  
Are overall production costs reasonable based on the expected lifetime of the coin?  
Justify your costs.

Summary and Conclusion:  
8-10 sentences  
Tell why your coin is superior.  
List specific reasons why your coin is better than the current half-dollar.  
Be specific and wrap up your proposal.

3-D Model: Model does not have to be made of the specified material but should resemble it.  
The design on the model should match the proposed design.