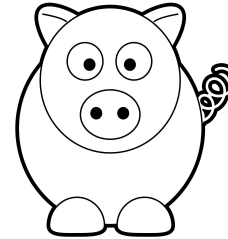
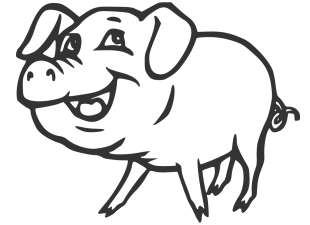
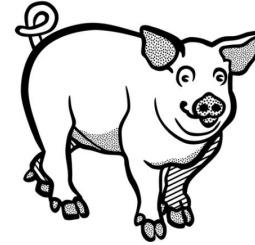


# Aluminum Foil Watercraft Prototype

For The Three Little Pigs



Goal

Role

Audience

Situation

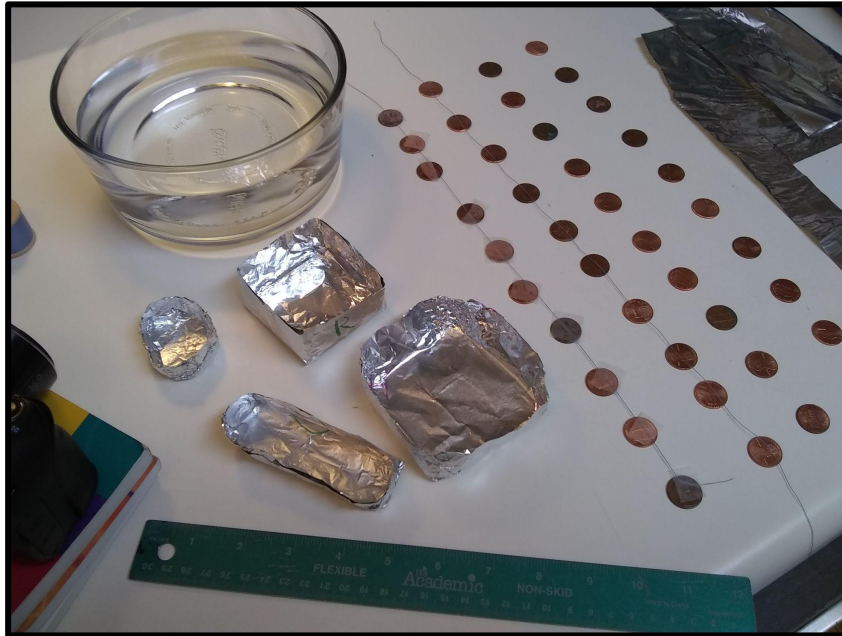
Product

Standards for Success



# Goal

Your goal is to build a prototype of a seaworthy aluminum watercraft to hold as much cargo as possible.



Goal

Role

Audience

Situation

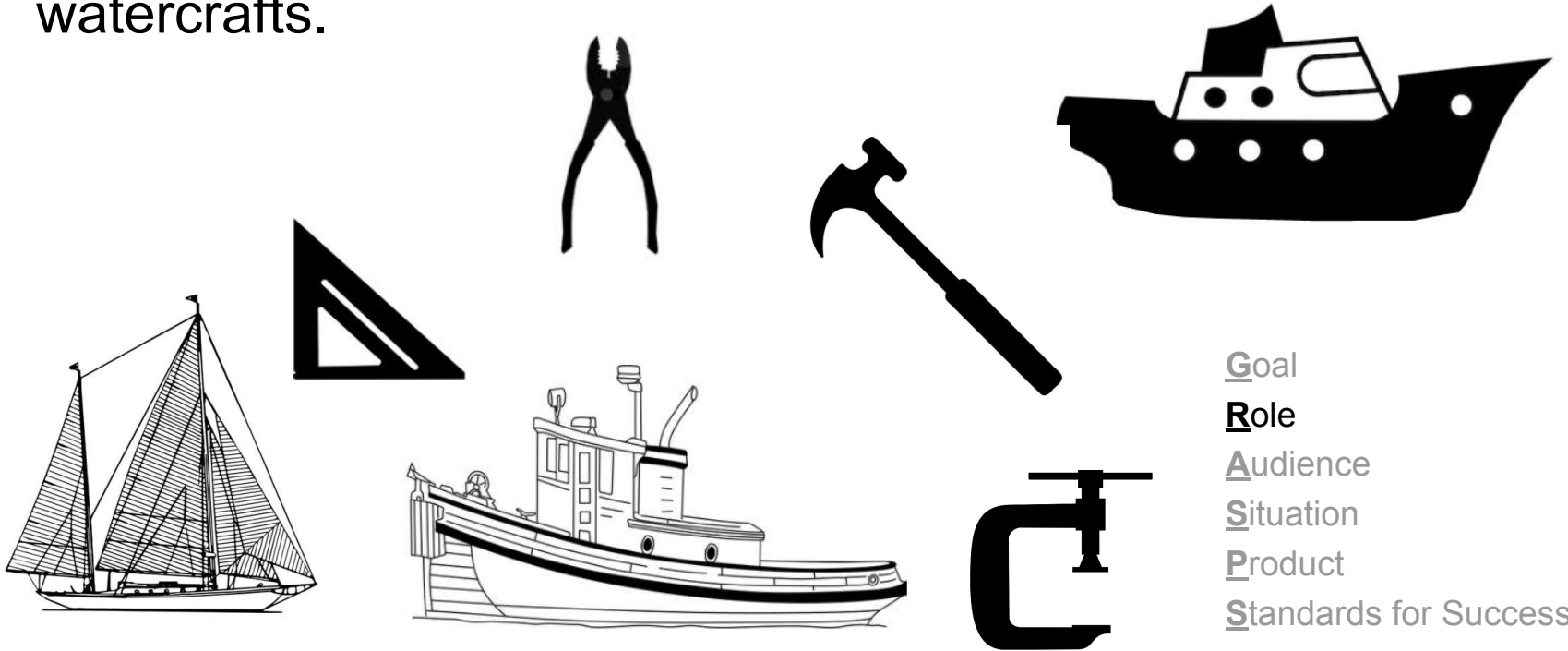
Product

Standards for Success



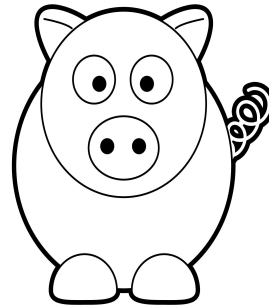
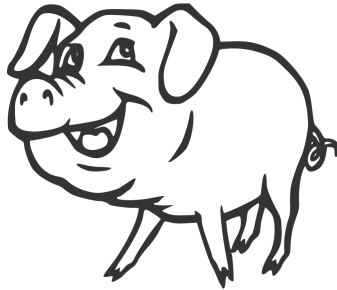
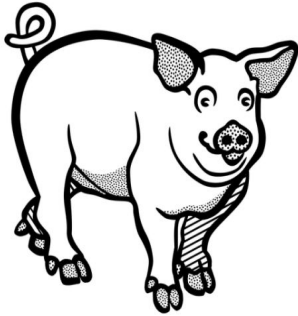
# Role

You are an expert boatbuilder specializing in aluminum watercrafts.



# Audience

The Three Little Pigs.



Goal

Role

Audience

Situation

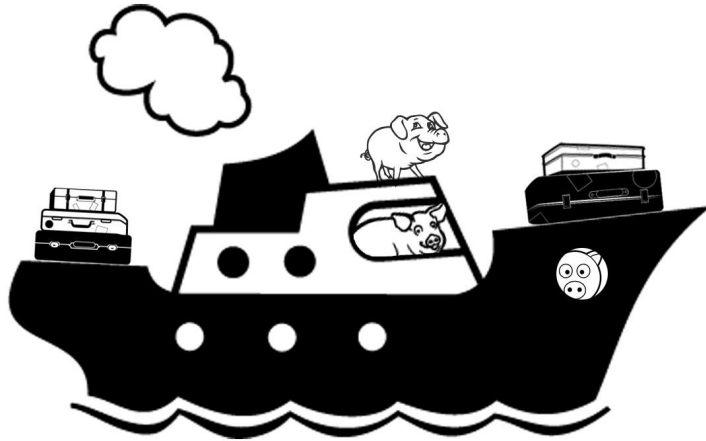
Product

Standards for Success



# Situation (1 of 3)

The Three Little Pigs recently inherited their mother's estate and now seek new adventures. They desire to sail the oceans to explore the great wide world. They need a seaworthy vessel!



Goal

Role

Audience

Situation

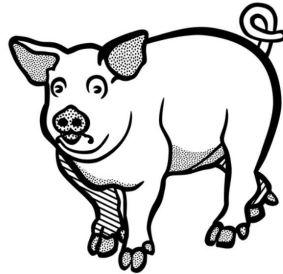
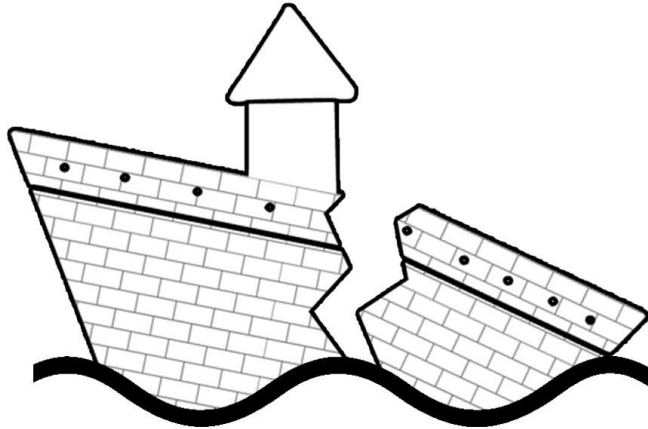
Product

Standards for Success



# Situation (2 of 3)

While two of the pigs occasionally suffered from immaturity and frivolousness, they admired their other brother's work ethic. All three attempted to make a sturdy watercraft on their own. However, their experimental boat made of bricks sank upon the first launch with zero cargo!



Goal

Role

Audience

Situation

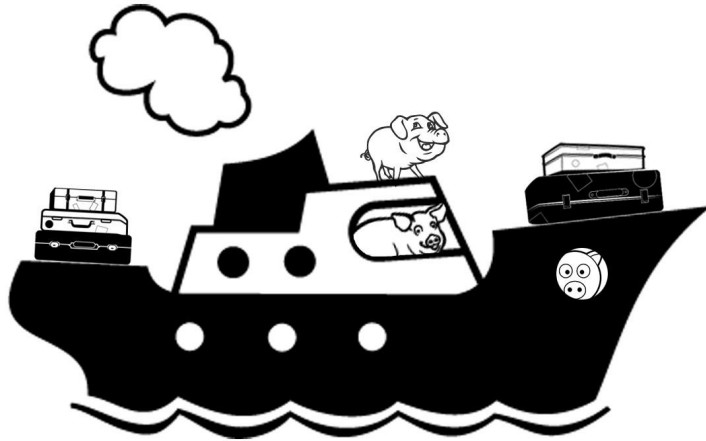
Product

Standards for Success



# Situation (3 of 3)

These adventurous piggies need your expertise to start their new lives safely on the ocean in a watercraft of optimal seaworthiness. You will demonstrate your boatbuilding skills to them by making an aluminum foil prototype.



Goal

Role

Audience

Situation

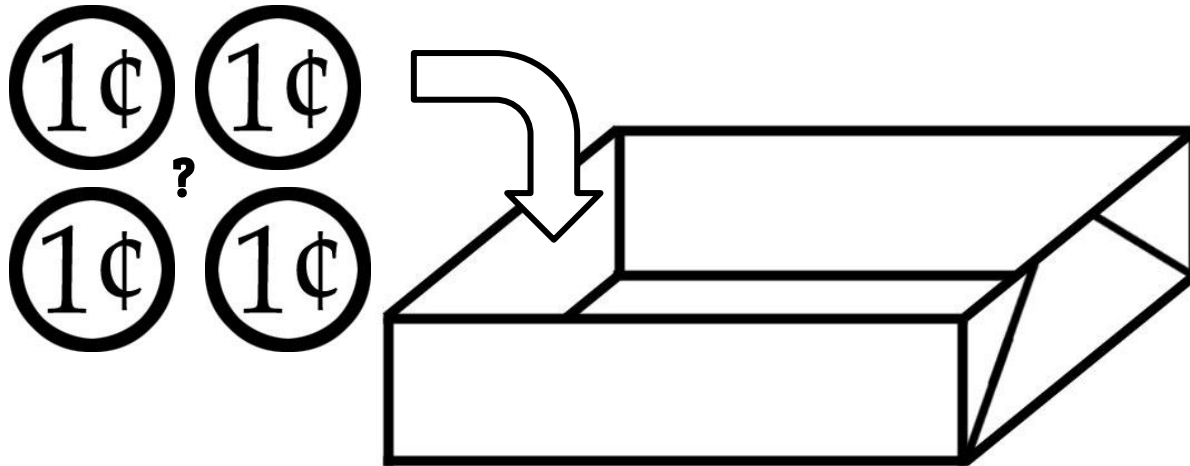
Product

Standards for Success



# Product

Create an aluminum foil watercraft prototype to hold as much cargo as possible.



Goal

Role

Audience

Situation

Product

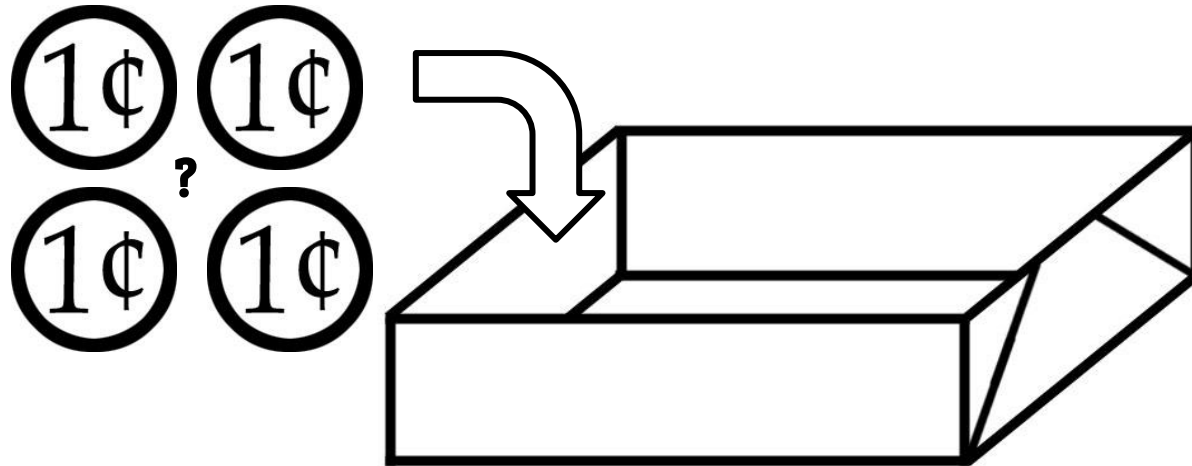
Standards for Success





# Standards & Criteria for Success (1 of 4)

The aluminum foil prototype watercraft shall support as much cargo as possible before failure (i.e., fully sinking into the water). Cargo units shall be measured in U.S. pennies.



Goal

Role

Audience

Situation

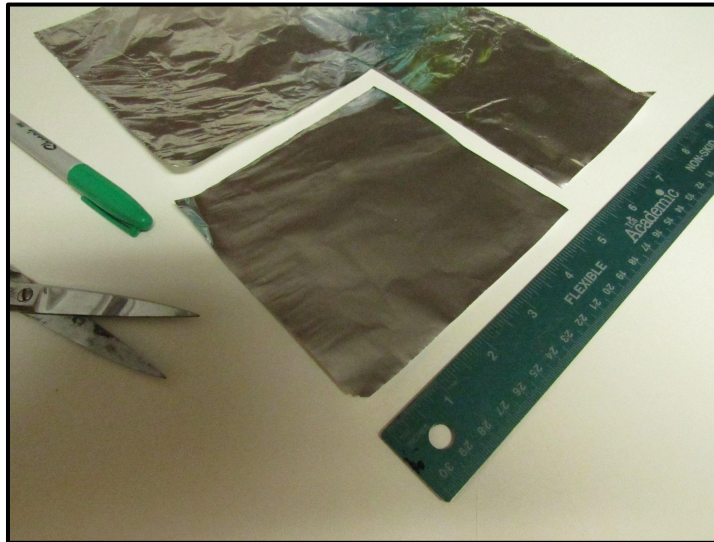
Product

Standards for Success



# Standards & Criteria for Success (2 of 4)

An entire 5-inch square piece of aluminum foil shall be used to make the prototype. The foil may be cut, ripped, or folded into any shape.



Goal  
Role  
Audience  
Situation  
Product  
Standards for Success

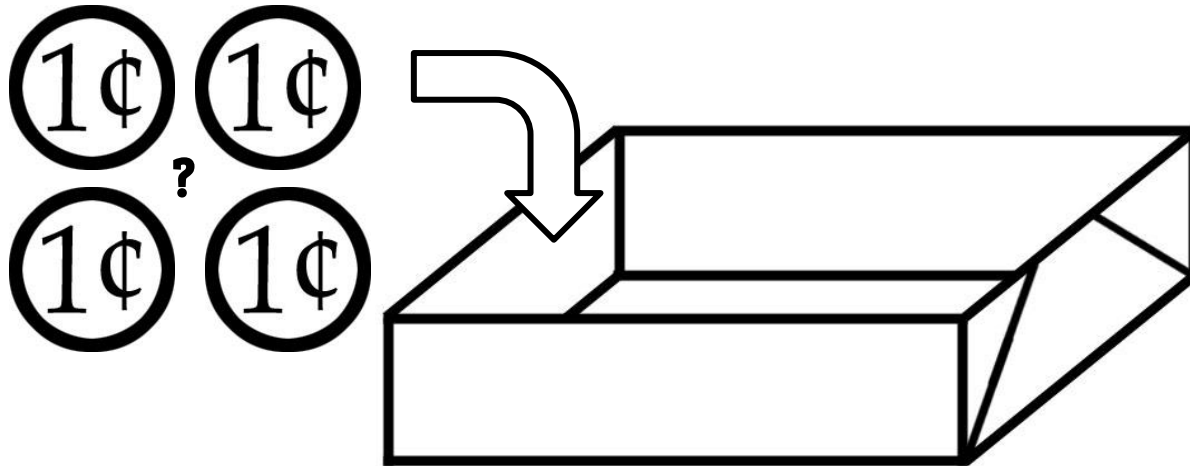


# Standards & Criteria for Success (3 of 4)

≥ 15 pennies = adequate

≥ 30 pennies = average

≥ 50 pennies = expert



Goal

Role

Audience

Situation

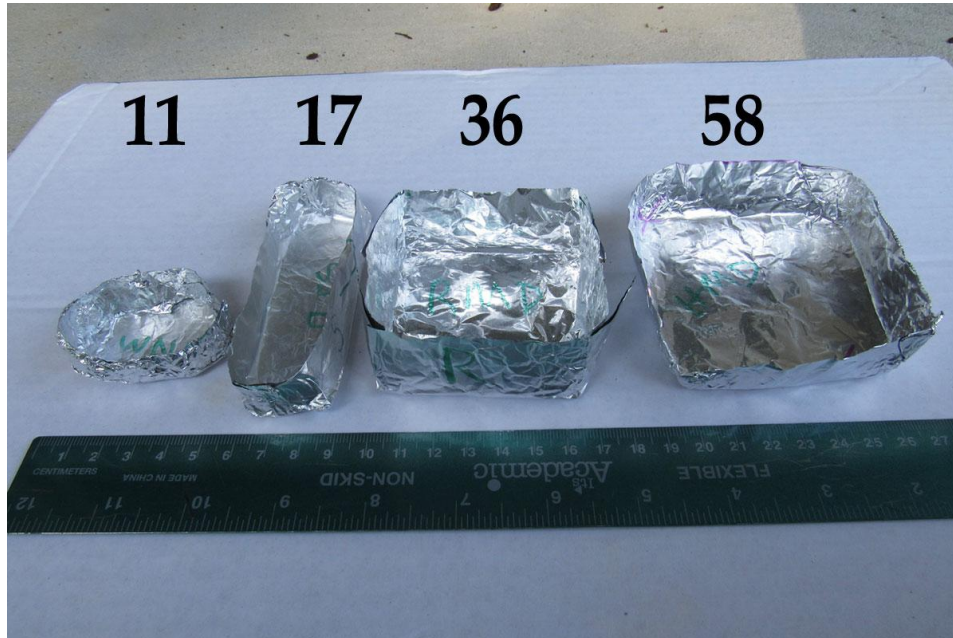
Product

Standards for Success



# Standards & Criteria for Success (4 of 4)

Current data reference: Four 5-inch prototypes were tested.  
The number of pennies at failure for each were:



Goal

Role

Audience

Situation

Product

Standards for Success

