

CATAPULT CREATION

Good day, Jamestown Settler! You have done an excellent job building your fort to protect yourself from those roguish Spanish and Natives! Our weapons will be helpful, but we need something that will protect us from advancing attackers. You must build a catapult! King James will give you 100 sovereign coins (2,000 shillings) to complete your catapult. You will be able to spend your money on the supply ships that come to the New World.

The design must satisfy the following requirements in order to be adopted:

- Your team must decide on a purpose for the catapult before starting construction. Please write the purpose of your catapult in the space below. Construction cannot begin until the purpose is written down.

- All team members must agree on the final design.
- The contract goes to the design that succeeds and costs the least.
- Your team may send only ONE person to the Supply Ship at a time.
- Your team may only send ONE person to the Tool Rental Deck at a time.
- You must keep track of EVERYTHING you use during construction. Unless it can be returned to the Supply Ship, your team must pay for it.

CATAPULT CREATION

Questions to Guide our Research

CATAPULT CREATION

Research

(Please use the Evaluation Checklist)

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Brainstorming

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Final Plan

CATAPULT CREATION

Please list below all the materials and tool rental costs used in the construction of your catapult. Calculate total prices for each material used and the total cost.

[illegible]

CATAPULT CREATION

Tool Rental List

Price per 10 minutes. You must pay for a full ten minutes, even if you only use a tool for part of ten minutes.

<i>hammer</i>	£10
<i>mallet</i>	£15
<i>hacksaw</i>	£15
<i>screwdriver</i>	£10
<i>hand drill</i>	£10
<i>pliers</i>	£10
<i>glue gun</i>	£5
<i>calculator</i>	£5
<i>other</i>	£5

CATAPULT CREATION

Materials Price List

You may return materials and get your money back
ONLY if they can be resold.

<i>marshmallows</i>	£25/each
<i>ping pong balls</i>	£20/each
<i>tennis balls</i>	£15/each
<i>craft sticks</i>	£1/each
<i>rubber bands</i>	£1/each
<i>pipe cleaners</i>	£1/each
<i>plastic cups</i>	£5/each
<i>15 cm string</i>	£1/each
<i>15 cm tape</i>	£1 10 shillings/each
<i>dowels</i>	£2 10 shillings/each
<i>nails</i>	10 shillings/each
<i>tacks</i>	10 shillings/each
<i>other</i>	see price as marked

CATAPULT CREATION

When complete, take the catapult to the testing station. Record the results of each test in the space below.

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CATAPULT CREATION

Reflection

For each group, what is one detail that you especially liked and would like to have used in your catapult? Why?

Group	Detail	Why?

CATAPULT CREATION