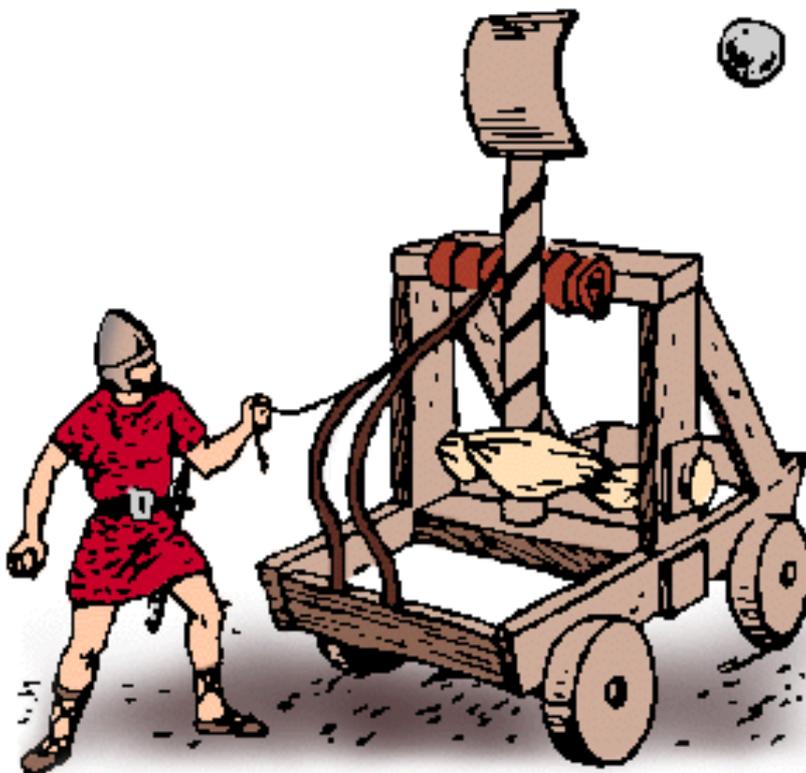


Class Three  
Design Technology  
Project

Summer 2021

# Catapults

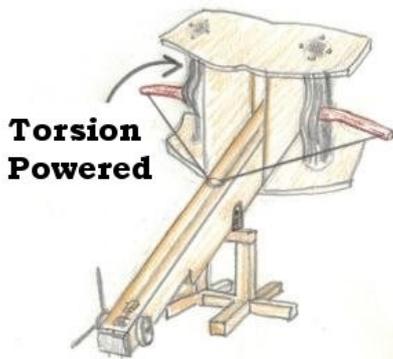


Name \_\_\_\_\_

# What weapons did the Romans use?



Giant Crossbow  
(Ballista)

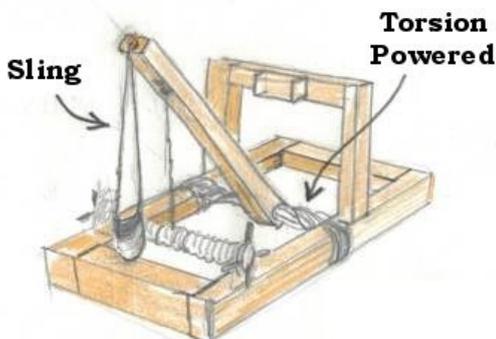


Catapult (Onager)

Long spear, or  
javelin (Pilum) for  
throwing



Short sword for  
stabbing (Gladius)



Dart Thrower  
(Scorpio)

Dagger (Pugio)



Which weapon does  
not have a picture?

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# Evaluating Materials and Designs 1



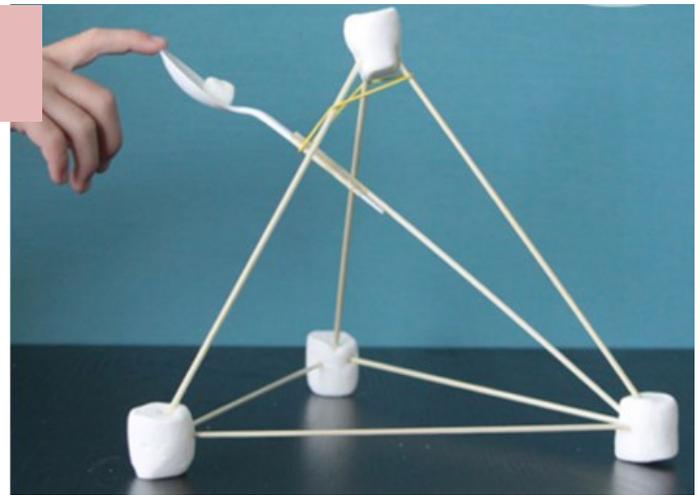
Lolly stick (or wooden spoon) design

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Pyramid design 1

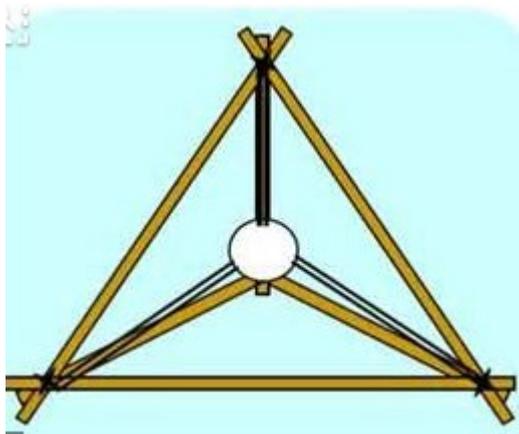


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Pyramid design 2

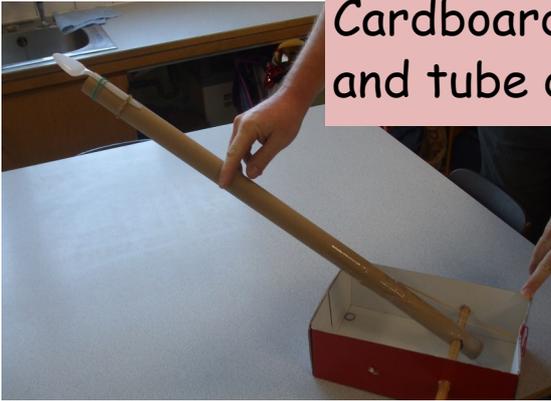
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# Evaluating Materials and Designs 2



Cardboard box and tube design

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Cardboard Flap design

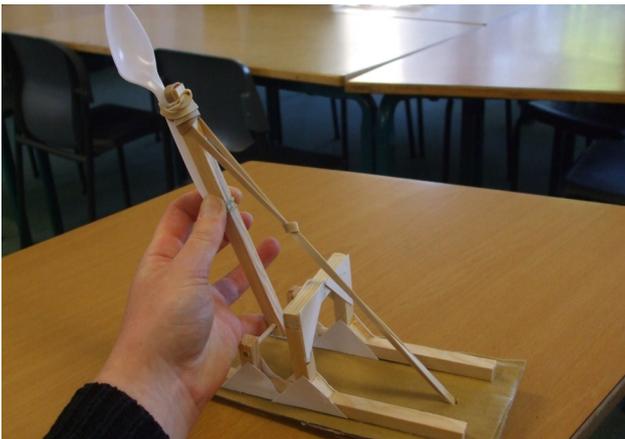
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Wooden frame design



Overall, which design(s) will be best for you to make?

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# Design Criteria

Your design must:

- [ ] have a firing arm that powers itself and is capable of firing a marshmallow (You may use your hand to pull it back but not to actually fire it).
- [ ] have its own frame that supports it fully. (You may hold down the base when firing the catapult).
- [ ] use a maximum of 90cm of wood in total
- [ ] have a base no bigger than an A5 piece of paper
- [ ] optional extra: be decorated with your choice of accessories, as available.
- [ ] optional extra: be complete with your design logo attached to it somewhere.

## Your Own Design—a labelled diagram of your whole catapult

Label the parts. Do not worry about sizes yet.

# Your Own Design—a labelled diagram of the frame

This will be the tricky part. You must know the sizes of each piece of wood, how they will be fixed together and whether any holes need drilling through them.

List of materials needed for the whole project, including  
measurements

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# Construction Photos

## My Finished Catapult

# Testing and Evaluation

Does your design:

have a firing arm that powers itself and is capable of firing a marshmallow (You may use your hand to pull it back but not to actually fire it).

have its own frame that supports it fully. (You may hold down the base when firing the catapult).

use a maximum of 90cm of wood in total

have a base no bigger than an A5 piece of paper

optional extra: have decoration with your choice of accessories, as available.

optional extra: have your design logo attached to it somewhere.

What are you pleased about?

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What would you do differently next time?

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