

ANCIENT GREECE STEM CHALLENGES



**CHARIOT CHALLENGE
& CATAPULT CHALLENGE**



Ancient Greece STEM Challenge



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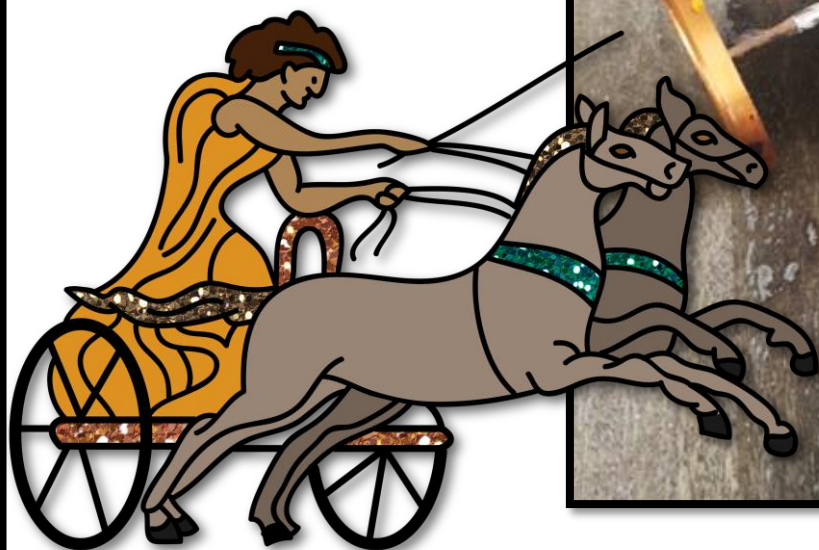
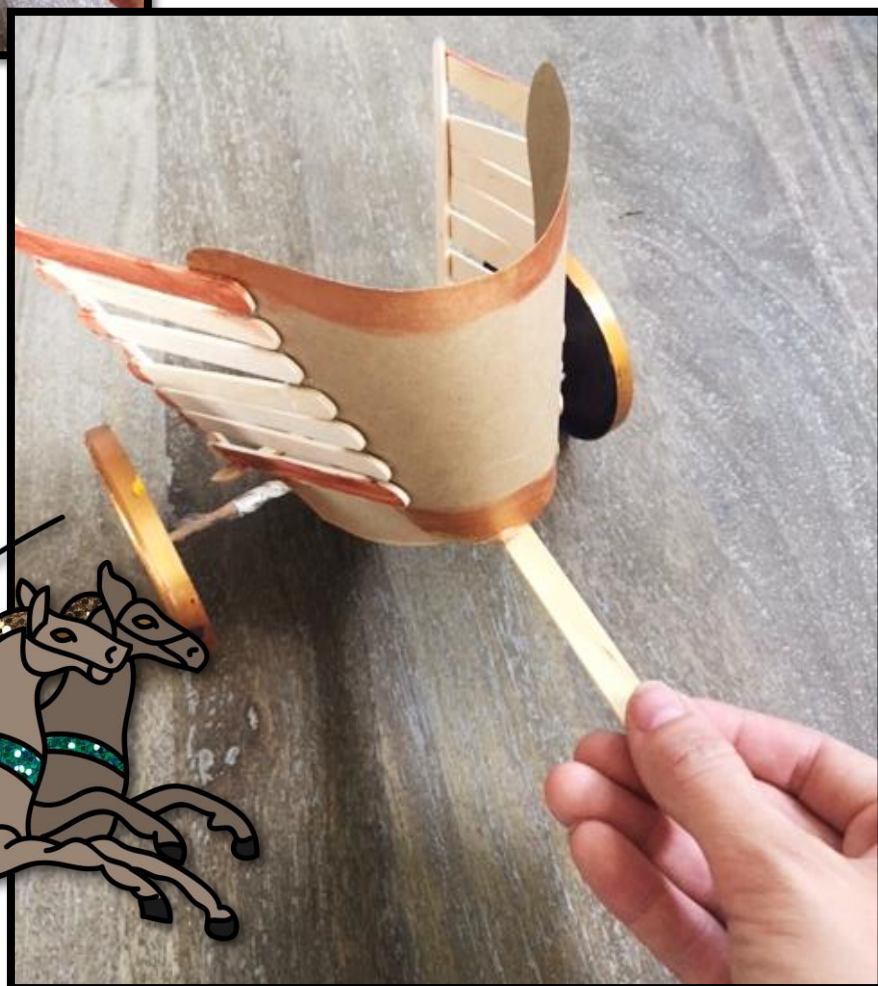


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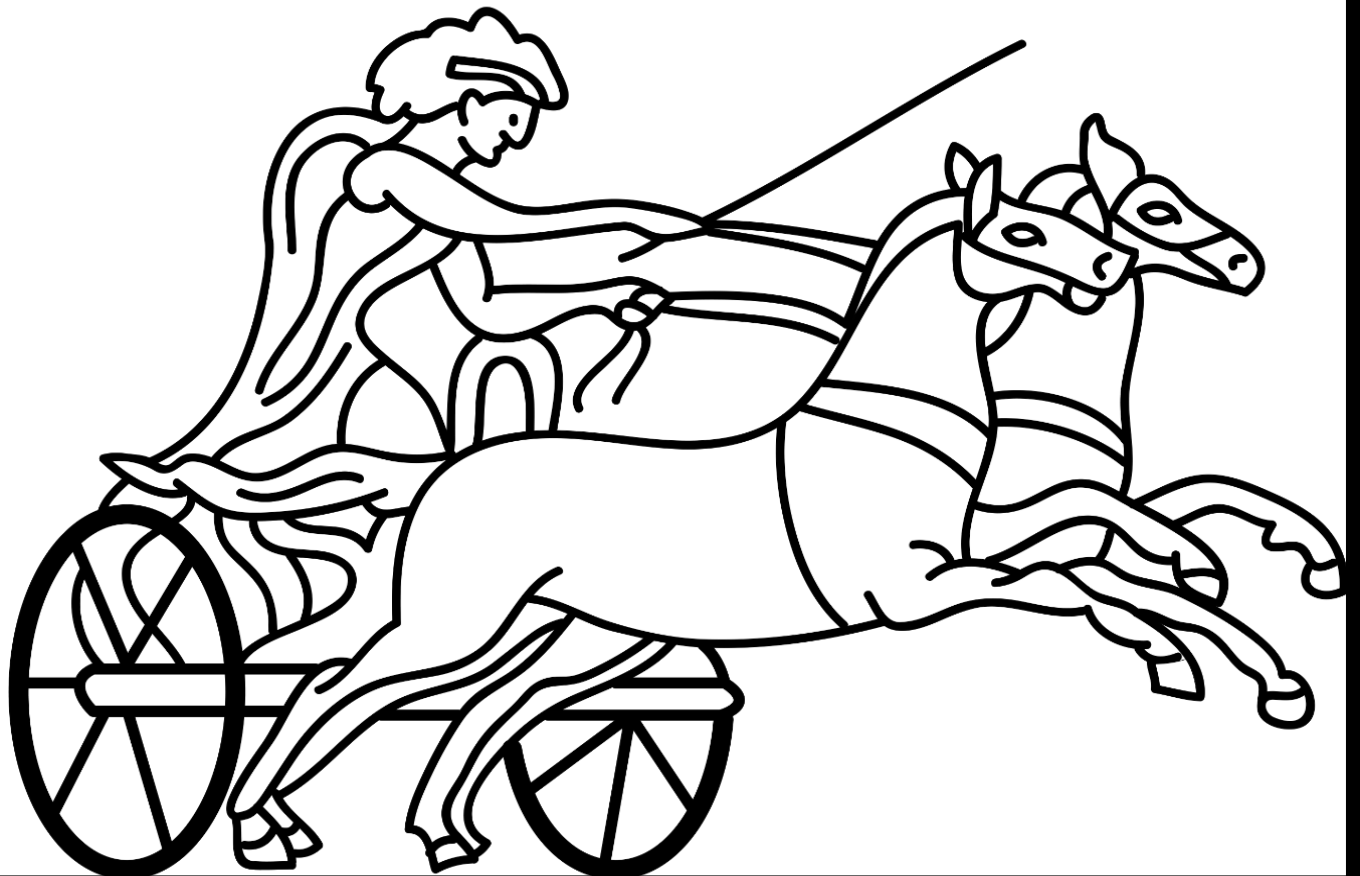
Challenge #1

Chariot Challenge



About Greek Chariots

During the Mycenaean period, the Greeks used the chariots in battle. During the Classical Greece period, the chariots were not used for war. They were mostly used during Panathenaic games and Olympic races. Chariots were also used in ceremonial functions such as weddings for the upper class. They were drawn by two horses attached to a central pole, carrying one or two people.

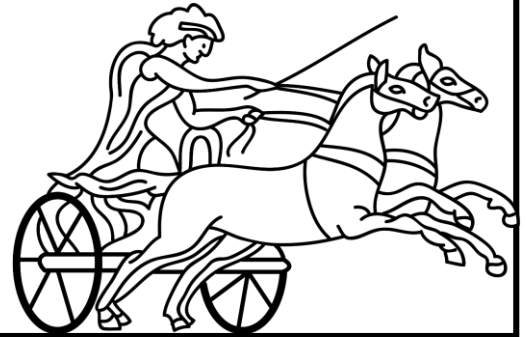


Greek Chariot

STEM CHALLENGE

The STEM Challenge:

Using the supplies below, students must engineer a model of a chariot. The chariot must have functioning wheels where the contraption can be pulled around while the wheels spin. Students can only use the items listed below. They have one hour to complete this challenge.



Materials for Chariot:

- Popsicle sticks
- Construction paper
- Glue
- Scissors
- Plastic lids
- Small cup, container
- Wood skewer or stick

OUR STEM GROUP

Student Names:

Predict:

Predict how difficult this challenge might be. What are some difficulties you might run into while trying to complete this challenge?

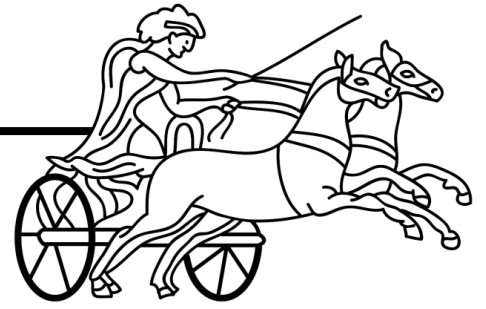
Brainstorm:

How are you going to tackle this challenge?

Greek Chariot

STEM CHALLENGE

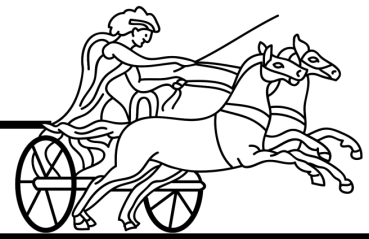
Brainstorming



Notes:

Greek Chariot

STEM CHALLENGE



Trial 1: _____

Notes: _____

Drawing:

Trial 2: _____

Notes: _____

Drawing:

Trial 3: _____

Notes: _____

Drawing:

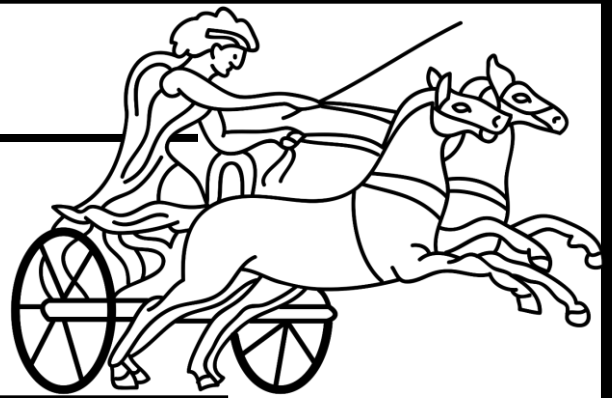
END RESULT: _____

Drawing:

Greek Chariot

STEM CHALLENGE

Reflection



Did you complete the challenge? Yes or No? _____

How did you design your chariot? _____

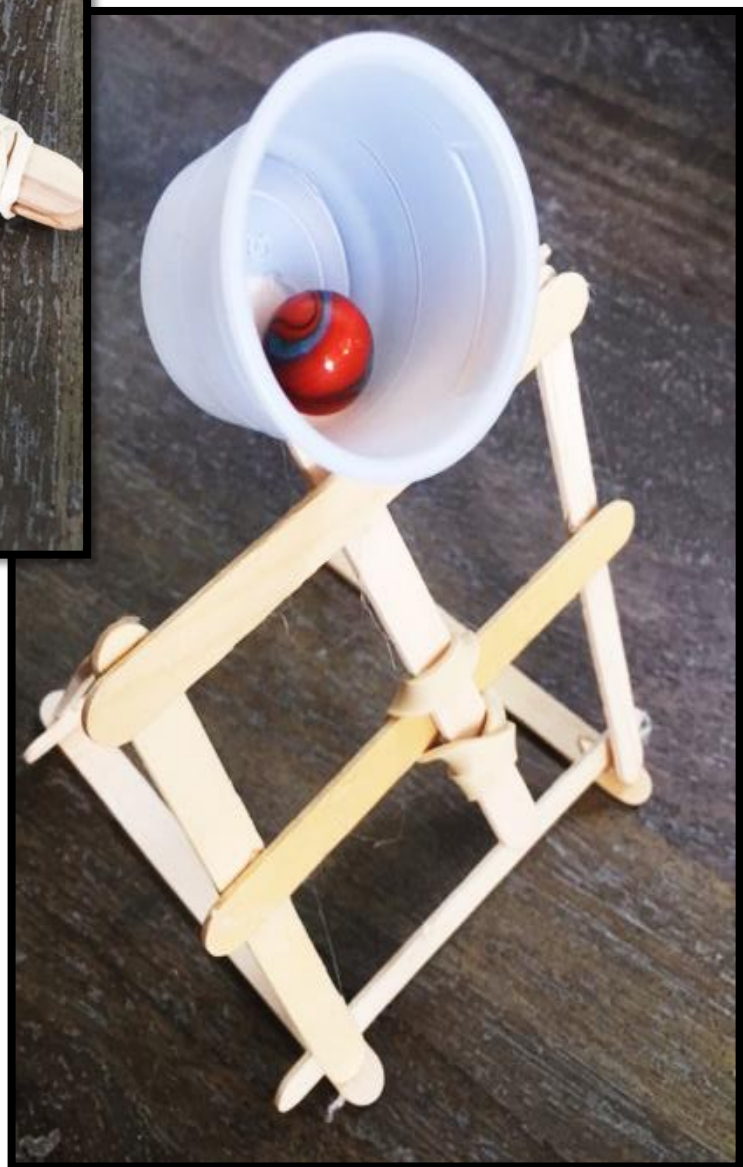
Whether you did or did not complete the challenge, what would you do differently next time? _____

Were your predictions correct? How so? If not, what occurred instead? _____

Did you enjoy completing this challenge? If you could change it in any way, (ex: materials, time restrictions) what would you change and why? _____

Challenge #2

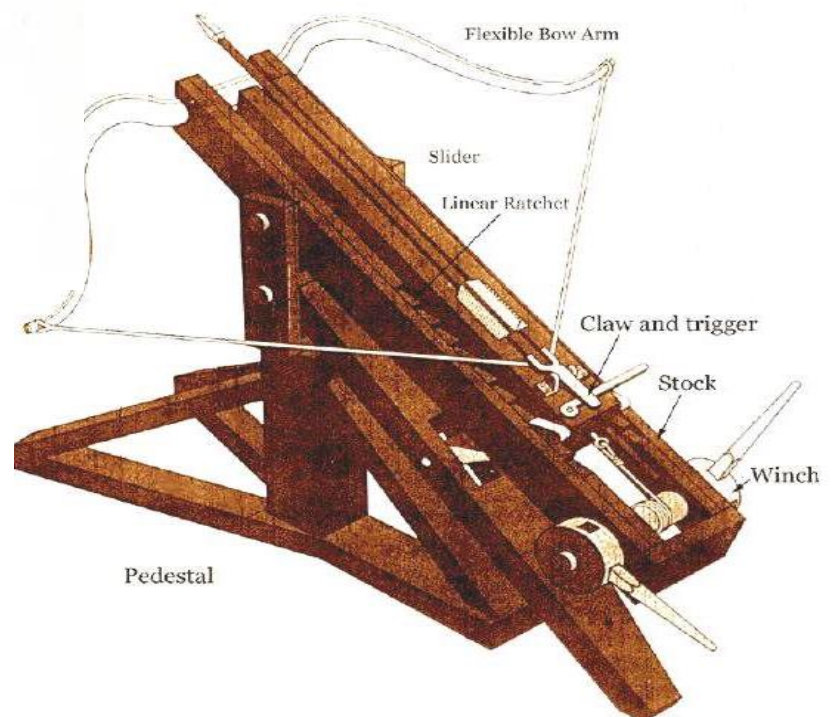
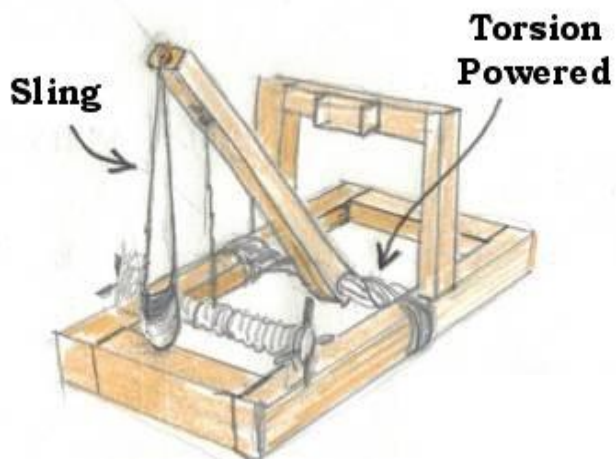
Catapult Challenge



About Catapults

The catapult was first used in Greece by Dionysius of Syracuse during 400 BC. It was designed as a highly effective war weapon. One type of catapult originated from the crossbow and was designed for shooting arrows. The single-armed catapult was used for hurling stones. This type of catapult was designed to smash through walls as well as armies of men.

The simple machine used in a catapult is the lever. To pull back the catapult, a pulley system or another mechanism might be used.



Catapult

STEM CHALLENGE

The STEM Challenge:

Using the supplies below, students must design a catapult. Students can decide to create a cross-bow style catapult or a stone-hurling catapult. The catapult must be able to launch or shoot an object into the air. The group that can create the most effective catapult (shoots the furthest) wins the challenge! Students can only use the items listed below. They have one hour to complete this challenge.



Materials:

- Popsicle sticks
- Rubber bands
- Bottle cap
- Pencils
- Glue
- String
- Duct tape

OUR STEM GROUP

Student Names:

Predict:

Predict how difficult this challenge might be. What are some difficulties you might run into while trying to complete this challenge?

Brainstorm:

How are you going to tackle this challenge?

Catapult

STEM CHALLENGE



Trial 1:

Notes:

Drawing:

Trial 2:

Notes:

Drawing:

Trial 3:

Notes:

Drawing:

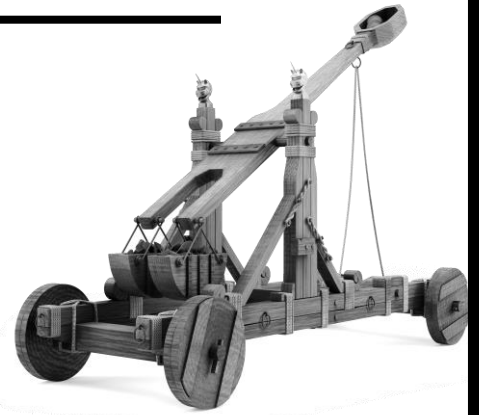
END RESULT:

Drawing:

Catapult

STEM CHALLENGE

Reflection



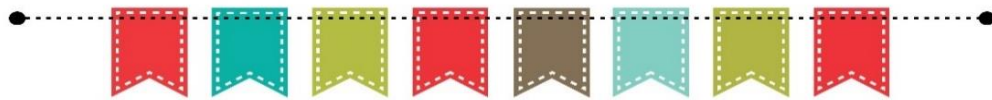
Did you complete the challenge? Yes or No? _____

Were you satisfied with your group's design? How so?

Whether you did or did not complete the challenge, what would you do differently next time?

Were your predictions correct? How so? If not, what occurred instead?

Did you enjoy completing this challenge? If you could change it in any way, (ex: materials, time restrictions) what would you change and why?



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"What do I do now?!"

Write a sensory poem. What do you see, hear, smell, feel, taste at this moment? Make a poem about it.

The Best Bored Busters!



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