CUB CATAPULTS

MONKEY CITY
Creative Expression

THE ADVENTURE:
Use craft sticks, spoons and other household materials to build your own catapult!

PLAN:
- Do you want to do this adventure inside, outside or at camp?
- What do you know about catapults? How does a catapult work?
- What materials will you use to build your catapult?
- How big will your catapults be?
- How will you decide which catapult design is best?
- Where will you set up a testing area for your catapults? What will you use for targets?

DO:
- Collect all of the materials you want to use.
- Explore your materials, and build a few prototypes. Which works best?
- How can you change the distance your projectile travels? How can you change how well it aims?
- How many targets can you hit?

REVIEW:
- What do you know now that you did not know before?
- What decisions did you make while building your catapult?
- What designs worked the best? How did you decide which designs were the best?
- Where do you see similar machines in everyday life?
- What did you like about this adventure? What did you not like? How would you do this adventure differently?
- What elements of STEM did you use in this adventure? Science? Technology? Engineering? Mathematics?

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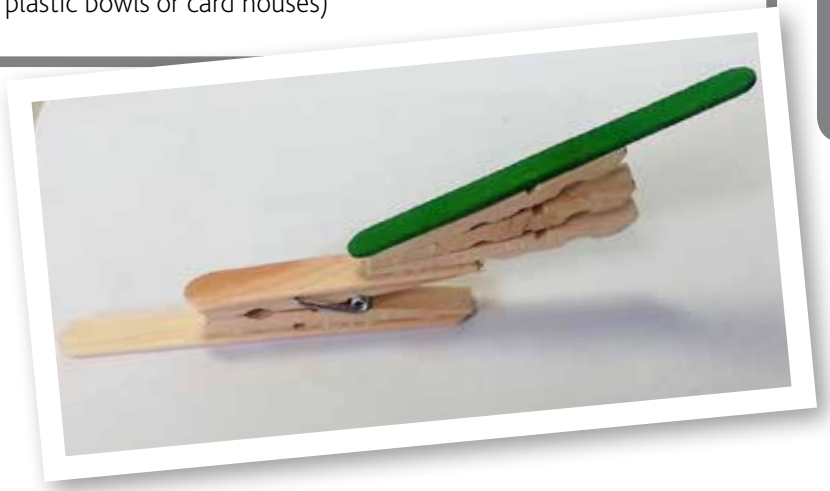
MATERIALS:

- Craft sticks
- Plastic spoons
- Wooden clothespins
- Bottle caps
- Rubber bands
- Any other materials for your catapult
- Wood glue
- Tape
- Projectiles (e.g. ping pong balls, pompoms or mini marshmallows)
- Targets (e.g. plastic bowls or card houses)



SAFETY TIP:

- Never fire a catapult towards another Cub.
- When pressure is applied to catapults, pieces may go flying. Be aware of flying pieces, and always stay behind your catapult. Safety glasses will protect your eyes from any projectiles.

ONLINE RESOURCES:

- How does a catapult work?
- 15 Catapult ideas
- Catapults!