

Shark Cage



Challenge:

Build a cage that protects a diver from a pretend shark.

Suggested Materials:

- straws
- craft sticks
- cardboard
- tape
- string
- cups

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SHARK WEEK STEM CHALLENGE

Shark Tooth Grabber



Challenge:

Create a tool that can grab food like shark teeth.

Suggested Materials:

- craft sticks
- spoons
- rubber bands
- paper clips
- tape
- cups

Fast Swimmer Fin



Challenge:

Design a fin that helps a pretend shark move faster.

Suggested Materials:

- craft foam
- cardboard
- straws
- tape
- foil
- paper

Shark Shadow Test



Challenge:

Create a shark shape and test how shadows change with light.

Suggested Materials:

- paper
- flashlight
- straws
- tape
- cardboard
- markers

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SHARK WEEK STEM CHALLENGE

Ocean Food Chain



Challenge:

Build a model that shows how shark food chains work.

Suggested Materials:

- paper
- string
- cards
- tape
- markers
- craft sticks

Rescue Raft



Challenge:

Build a raft that floats and holds a pretend swimmer.

Suggested Materials:

- foil
- craft foam
- straws
- tape
- cups
- pennies

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SHARK WEEK STEM CHALLENGE

Camouflage Fish



Challenge:

Design a fish that
can hide from a
shark.

Suggested Materials:

- paper
- tissue paper
- markers
- glue
- scissors
- cotton balls

Shark Tracking Tag



Challenge:

Build a pretend tracking tag that can attach to a shark model.

Suggested Materials:

- paper clips
- string
- tape
- cardboard
- craft foam
- paper

Reef Crossing Bridge



Challenge:

Build a bridge or path across a coral reef habitat.

Suggested Materials:

- craft sticks
- cardboard
- cups
- tape
- straws
- paper

Shark Mouth Model



Challenge:

Create a model that opens and closes like a shark mouth.

Suggested Materials:

- paper plates
- brads
- cardboard
- tape
- craft sticks
- paper teeth

Name: _____

Shark Week STEM Challenge

Challenge Name:

Make a Plan:

Draw Your Design:

Materials Needed:

Test it: Did it work?

☐ Yes

☐ No

Improve it:

One thing I learned:

Name: _____

Shark Week STEM Challenge

Ask: What problem are you solving ?

Imagine: What are your ideas?

Plan: Draw & label your design

Create!

Test it!

Improve it!

Explain: What works? What doesn't work? What would you do differently next time?

Name: _____

Shark Week STEM Challenge

Challenge Name:

Supplies:

Draw Your Design:

Test it: Did it work?

☐

Yes

☐

No

☐

Almost

I can make it better by...

Name: _____

Shark Week STEM Challenge

Team Members

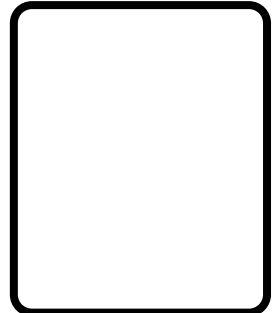
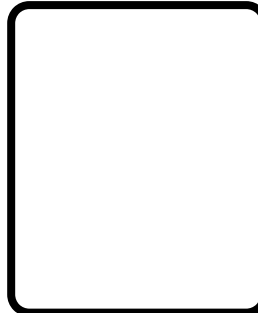
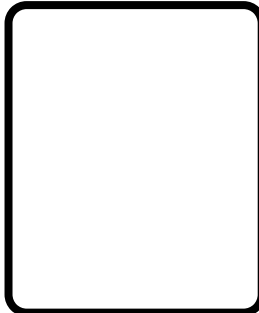
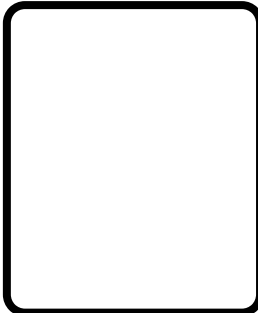
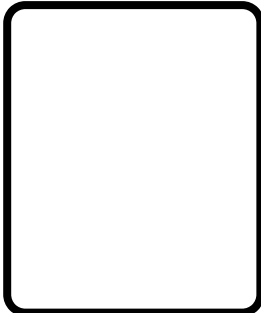
1. _____
2. _____
3. _____
4. _____
5. _____

Our Challenge:

Our Plan:

Our Design:

Team Jobs:



How will we test it?

Name: _____

Shark Week STEM Challenge Reflection

The hardest part was...

The best part was...

One thing I changed was...

Next time, I would...

My design worked because...

Name: _____

Shark Week STEM Challenge Ruberic

Criteria	4 Excellent	3 Good Job	2 Keep Trying	1 Beginning
Planning	We made a clear plan and explained our ideas in detail.	We made a plan and explained most of our ideas.	We made a plan, but it was a little unclear.	We did not make a plan or share our ideas.
Building	We built a strong, creative design and used our materials well.	We built a good design and used our materials well.	Our design works somewhat, and we used some materials well.	Our design does not work well, and we did not use materials well.
Testing	We tested our design carefully and recorded our results.	We tested our design and recorded some results.	We tested our design but did not record all our results.	We did not test our design or record results.
Teamwork	We worked together, listened to each other, and helped everyone.	We worked together and listened most of the time.	We worked together some of the time.	We did not work well together.
Improvement	We improved our design using what we learned from testing.	We made some improvements using what we learned.	We made a small change, but it did not help much.	We did not try to improve our design.