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LEMONADE STAND STEM CHALLENGE

Build a Lemonade Stand



Challenge:

Design a stand that can stay upright and hold a sign.

Suggested Materials:

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

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LEMONADE STAND STEM CHALLENGE

Cup Carrier



Challenge:

Build a carrier that can hold multiple cups at once.

Suggested Materials:

- cardboard
- cups
- string
- tape
- craft sticks
- paper plates

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LEMONADE STAND STEM CHALLENGE

Straw Dispenser



Challenge:

Create a dispenser that holds and releases straws one at a time.

Suggested Materials:

- straws
- cups
- cardboard
- tape
- craft sticks
- rubber bands

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LEMONADE STAND STEM CHALLENGE

Coin Sorter



Challenge:

Build a sorter that separates coins by size.

Suggested Materials:

- cardboard
- paper
- cups
- tape
- scissors
- coins

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LEMONADE STAND STEM CHALLENGE

Pitcher Pour Helper



Challenge:

Design a tool that helps pour lemonade without spilling.

Suggested Materials:

- cups
- straws
- foil
- tape
- cardboard
- paper

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LEMONADE STAND STEM CHALLENGE

Shade Cover



Challenge:

Build a shade cover for the lemonade stand.

Suggested Materials:

- paper
- fabric scraps
- straws
- craft sticks
- tape
- cardboard

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LEMONADE STAND STEM CHALLENGE

Menu Sign Stand



Challenge:

Create a stand that holds a lemonade menu or price sign.

Suggested Materials:

- paper
- cardboard
- craft sticks
- tape
- clips
- straws

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LEMONADE STAND STEM CHALLENGE

Lemon Launcher



Challenge:

Build a simple launcher that moves a lemon into a basket.

Suggested Materials:

- spoons
- craft sticks
- rubber bands
- pom poms
- cups
- tape

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LEMONADE STAND STEM CHALLENGE

Delivery Tray



Challenge:

Design a tray that can carry cups without tipping.

Suggested Materials:

- cardboard
- paper plates
- cups
- tape
- string
- craft sticks

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LEMONADE STAND STEM CHALLENGE

Line Maze



Challenge:

Create a path that helps customers move through the lemonade stand line.

Suggested Materials:

- paper
- blocks
- craft sticks
- markers
- tape
- cardboard

Name: _____

Lemonade Stand 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: _____

Lemonade Stand 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: _____

Lemonade Stand STEM Challenge

Challenge Name:

Supplies:

Draw Your Design:

Test it: Did it work?

Yes

No

Almost

I can make it better by...

Name: _____

Lemonade Stand STEM Challenge

Team Members

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

Our Challenge:

Our Plan:

Our Design:

Team Jobs:

How will we test it?

Name: _____

Lemonade Stand 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: _____

Lemonade Stand 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.