

STEM CHALLENGES

Pirate Ship





Early Learning
with Lori

THANK YOU!

Enjoy this free
resource.

I'm an early
childhood educator
with a focus on
science and math,
and I love sharing my
passion for discovery
and high quality
materials that make
your job easier.

CONNECT WITH ME

EMAIL:

hello@earlylearningwithlori.
com

BLOG:

earlylearningwithlori.com

FOLLOW MY STORE



TERMS OF USE

YOU MAY...

- Share with your students via email or secure learning platform such as Google Classroom
- Make copies for your students
- Purchase additional licenses for other teachers

YOU MAY NOT...

- Share with colleagues without purchasing additional licenses
- Store on shared or team drives
- Post any portion of this content on any site that is accessible by others
- Replicate any portion of this content

Early Learning with Lori

All rights reserved by author. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, department, school, or school system is prohibited. This product may not be distributed or displayed digitally for public view. Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Intended for classroom and personal use ONLY.

CLIP ART & FONTS



RESOURCES AVAILABLE ON TEACHERS PAY TEACHERS



WHY FOLDING CRAFTS?

About This STEM Craft: Pirate Ship Folding Activity

This fun and interactive pirate ship craft goes beyond arts and crafts—it's a hands-on STEM activity that incorporates important skills like folding, balance, and 3D design. Perfect for engaging students of various ages, this activity encourages creativity, critical thinking, and problem-solving, all while being easy to prepare and implement.

HOW THIS CRAFT CONNECTS TO STEM

This craft introduces key STEM concepts in a simple and approachable way:

- **Balance and Stability:** Folding the pirate ship correctly and positioning it for stability demonstrates principles of balance.
- **3D Design:** Students construct a three-dimensional model from two-dimensional materials, bridging math and engineering.
- **Problem-Solving:** Adjusting folds, experimenting with placement, and positioning the pirates and parrot on the ship encourage creative thinking.

BENEFITS OF TEACHING FOLDING SKILLS

- **Fine Motor Development:** Strengthens hand muscles and improves coordination, supporting skills like writing, cutting, and other precise tasks.
- **Spatial Awareness:** Helps students understand how shapes relate to one another and how folds can transform flat designs into 3D structures.
- **STEM Foundations:** Introduces key concepts such as symmetry, angles, and problem-solving in an engaging, hands-on way.
- **Focus and Patience:** Encourages students to concentrate and persevere as they carefully fold and assemble their craft.
- **3D Visualization:** Teaches students how to turn flat paper into three-dimensional models, enhancing their understanding of geometry and design.
- **Mechanical Principles:** Demonstrates how folding impacts a structure's stability and balance, connecting to real-world engineering concepts.

PIRATE SHIP

LESSON FOCUS

I can stack and balance folded pieces of paper to make a pirate ship with two pirates and a parrot.

MATERIALS

Pirate Ship Template
Scissors & Coloring Supplies
Directions Poster
Optional: Recording Page
Optional: Design Challenge Page
Optional: Writing Paper

PREPARATION

Print the template on cardstock for easy building or copy paper for more of a challenge. Print black and white version on white or colored paper.

Optional: Make a sample of the craft to use during Introduction

ACTIVITY

Introduction:

1. Explain that students will cut and fold paper to make a pirate ship. They will stack the pieces, without tape or glue.
2. Show the directions posterior photos and review the steps. Demonstrate if needed.

Activity:

1. If using white copies, have students color the pieces.
2. Students cut and fold the pieces. Stack the pirates and parrot onto the ship.
3. If the ship tips over, students should refold it for a sharper crease.
4. OPTIONAL: Students can use the cut-and-paste recording page to record their activity.

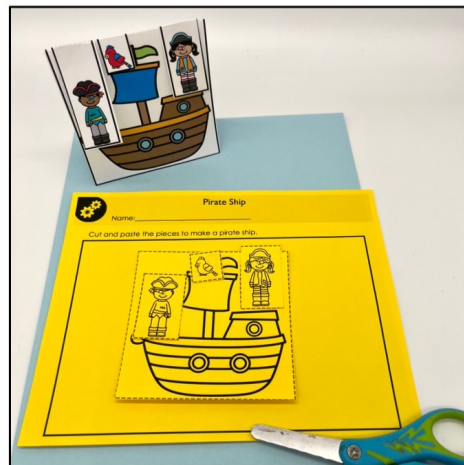
Extension Ideas

1. Expand the lesson by designing and building ships using paper or other materials. Record the activity with one of the bonus recording pages.
2. Use lined paper to write a story about the pirates and the ship.

PHOTOS



Finished Ship



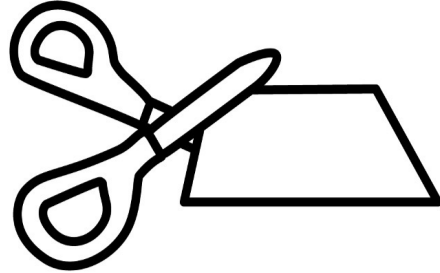
Cut-and-Paste Recording



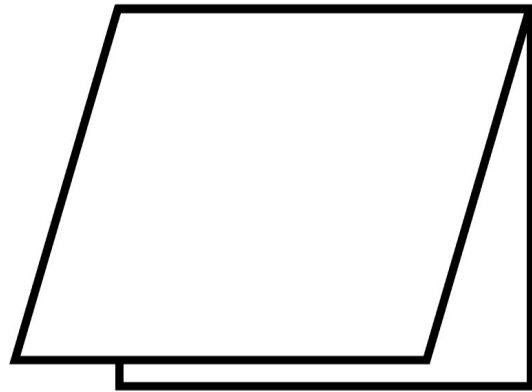
Design Challenge

PIRATE SHIP CHALLENGE

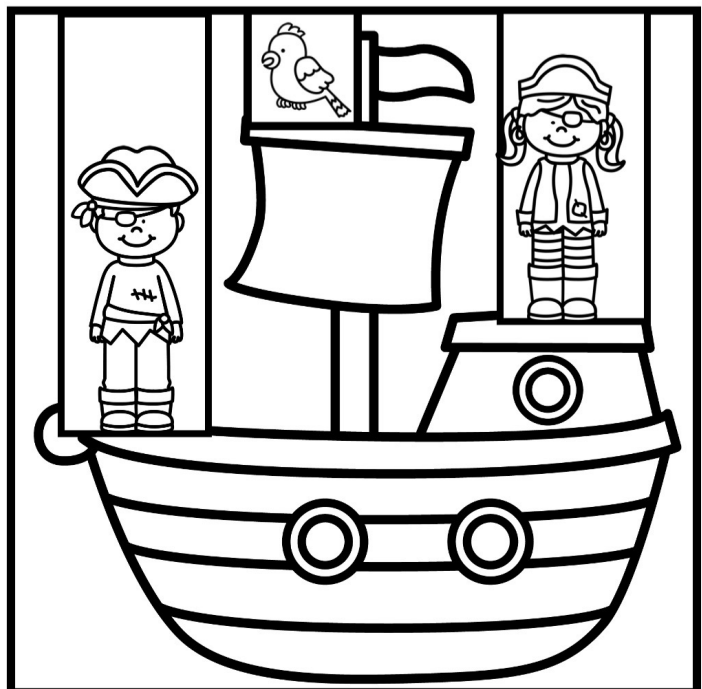
1. Cut _____



2. Fold - - - - -

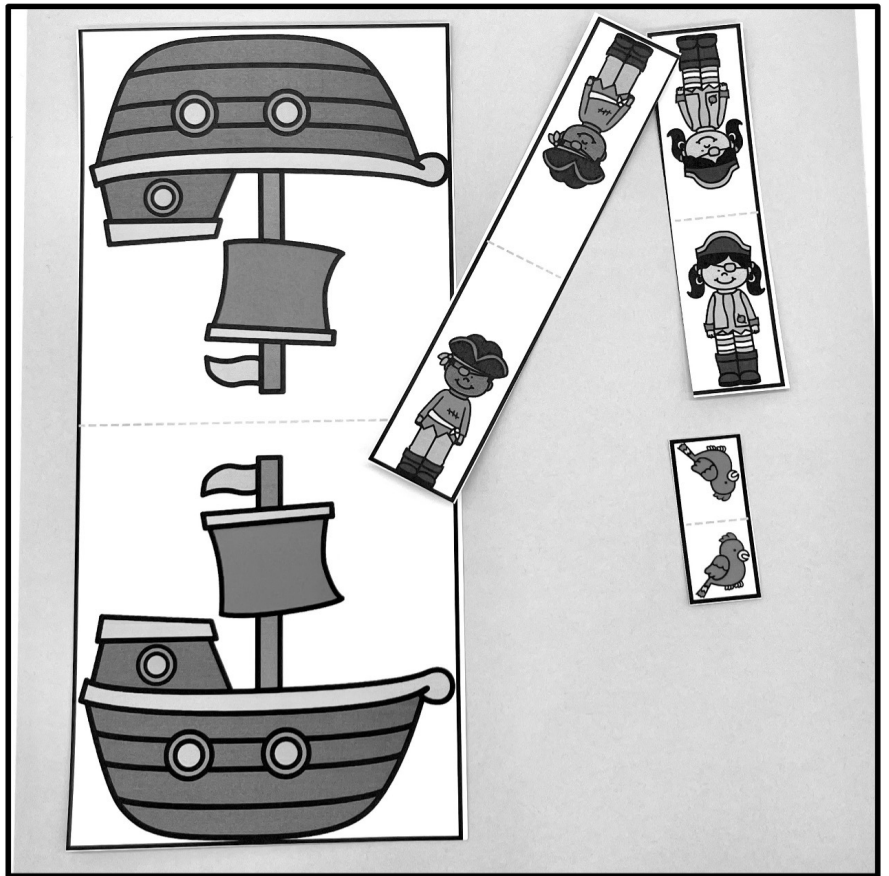


3. Build

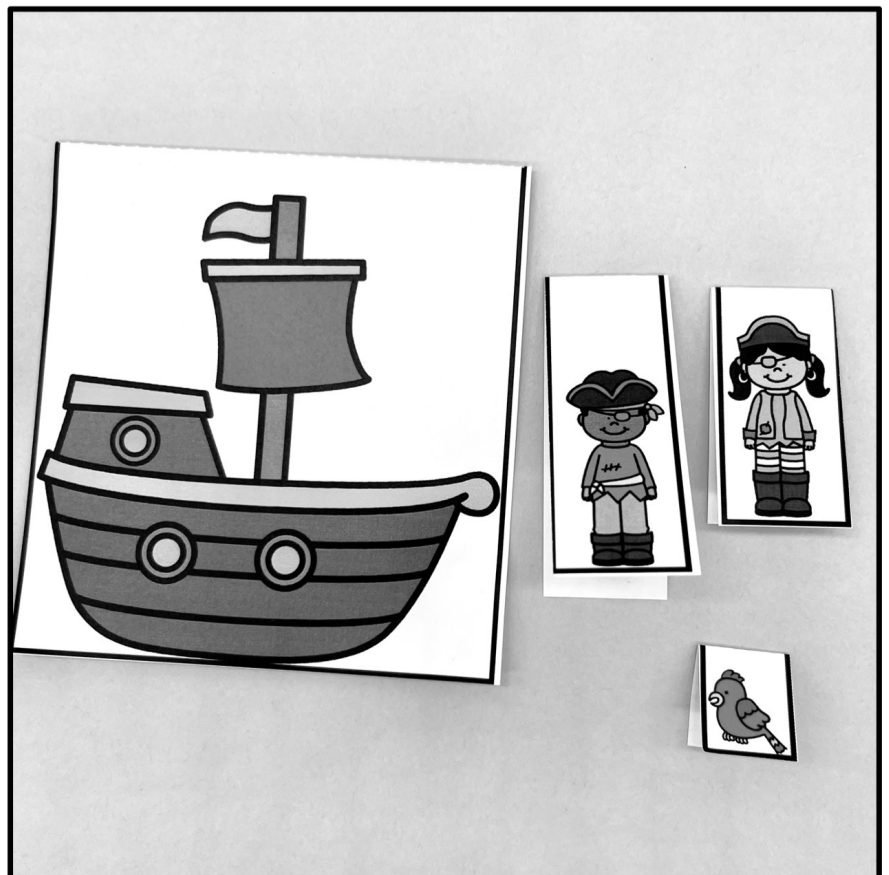


PIRATE SHIP

1. Color and cut the pieces.

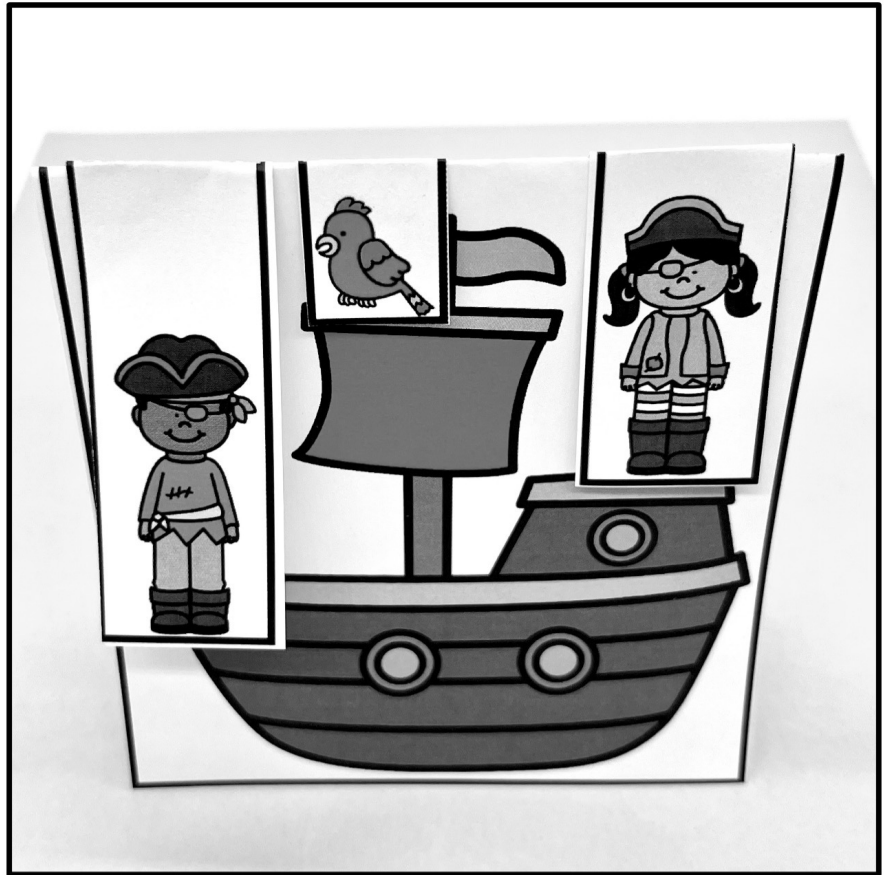


2. Fold pieces along the dotted lines.



PIRATE SHIP

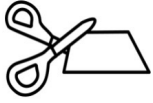
3. Balance the pirates and the parrot on the ship.



PIRATE SHIP

Fold and stack the pieces to make a pirate ship.

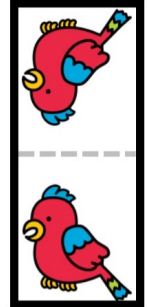
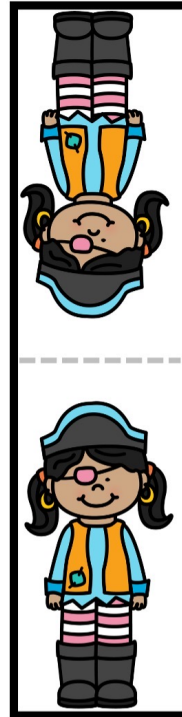
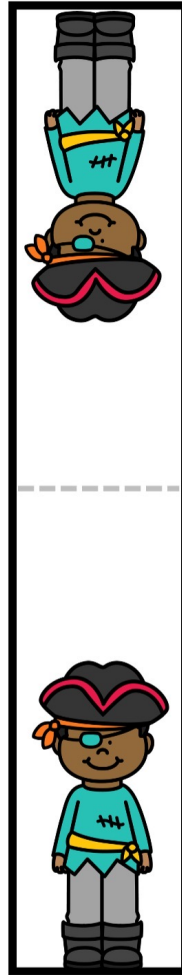
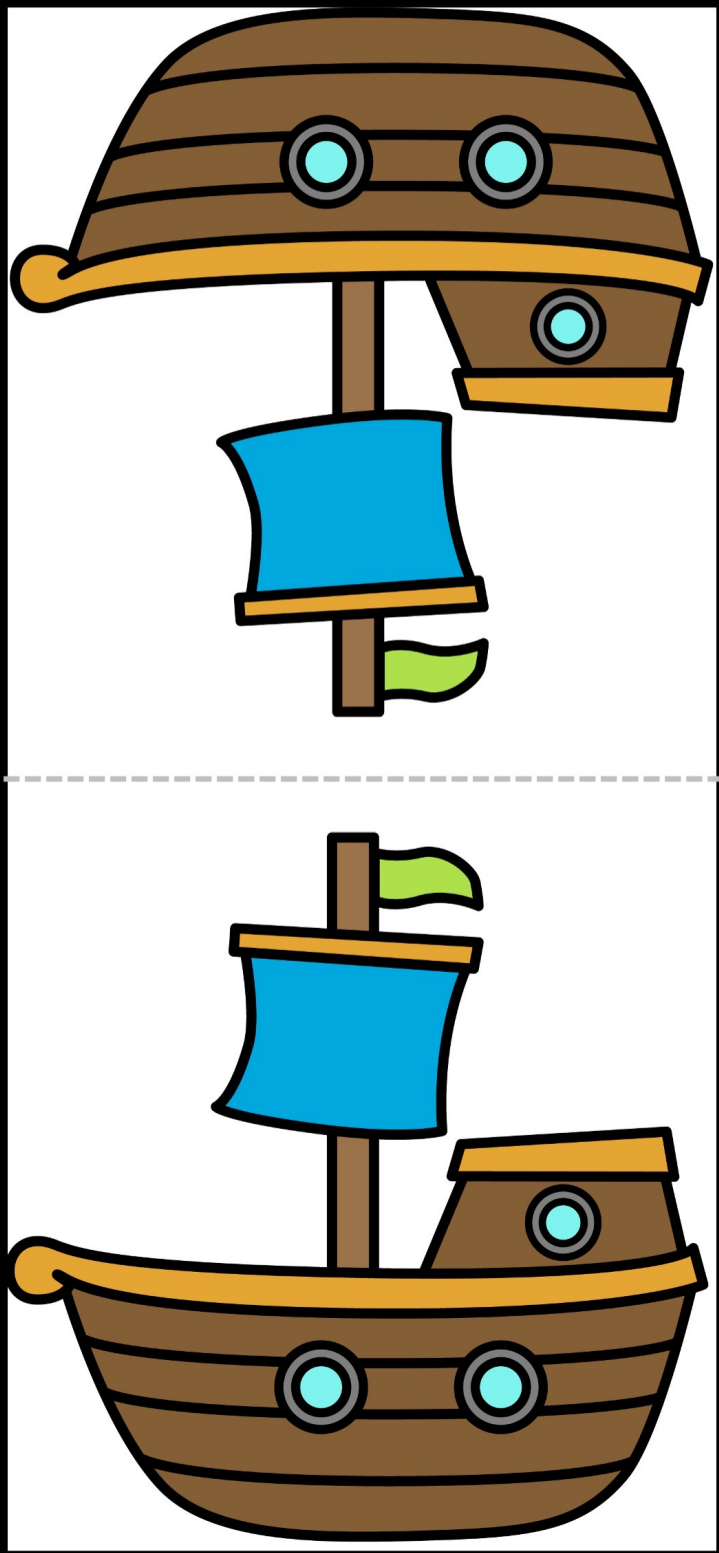
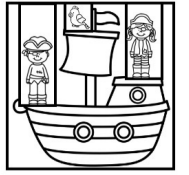
1. Cut _____



2. Fold - - - - -



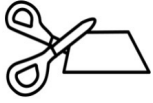
3. Build



PIRATE SHIP

Fold and stack the pieces to make a pirate ship.

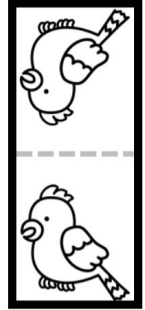
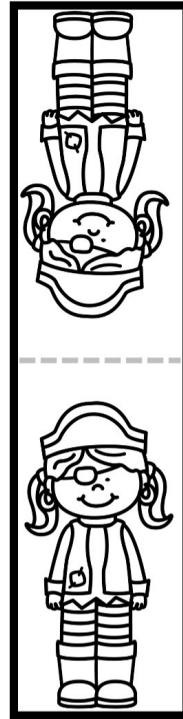
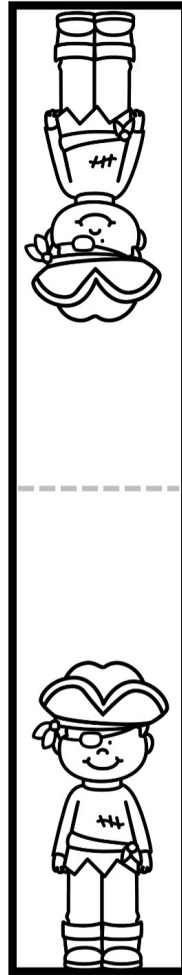
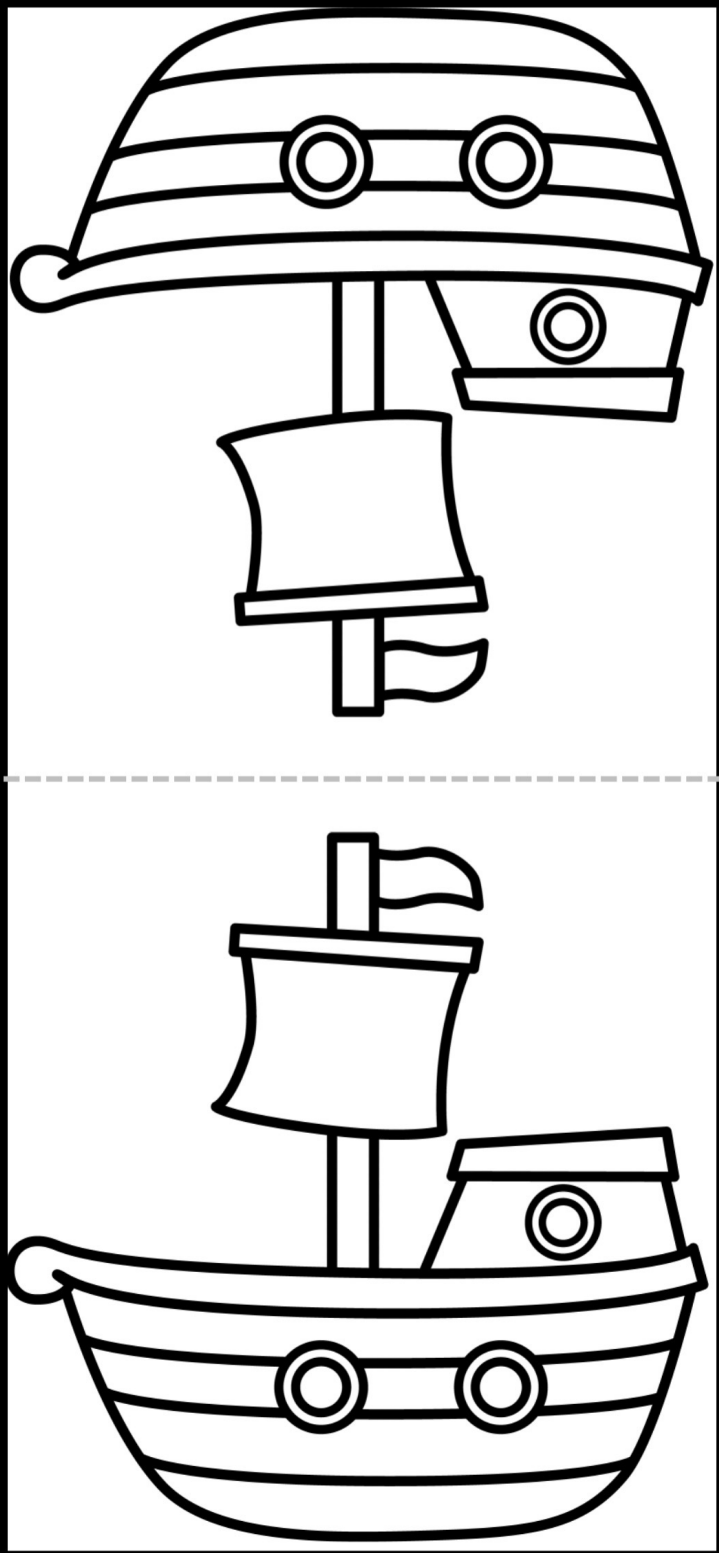
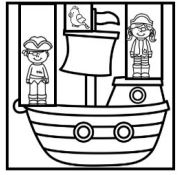
1. Cut _____



2. Fold - - - - -




3. Build







PIRATE SHIP RECORDING PAGE

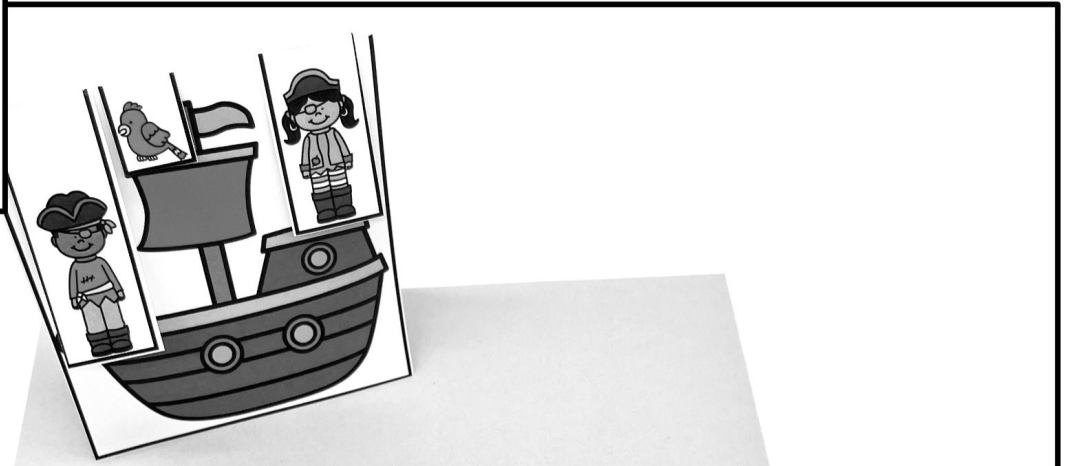
Cut and paste the pictures to show the pirate ship.

Pirate Ship
Name: _____
Cut and paste the pieces to make a pirate ship.

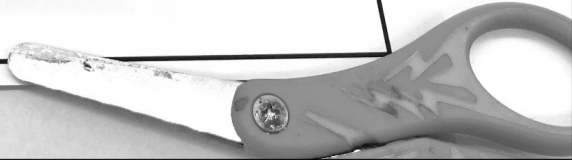
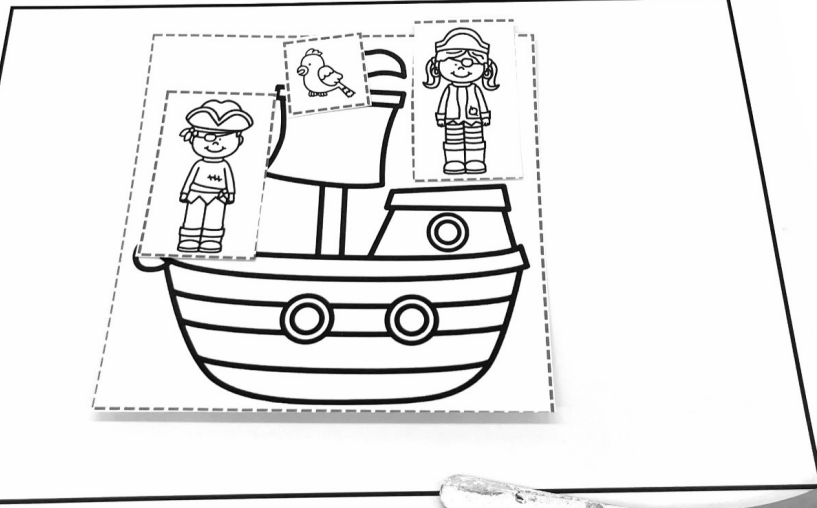


© 2014, Learning with Lori



Pirate Ship
Name: _____
Cut and paste the pieces to make a pirate ship.

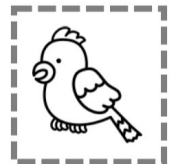
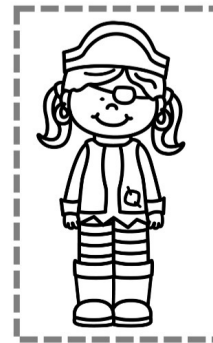
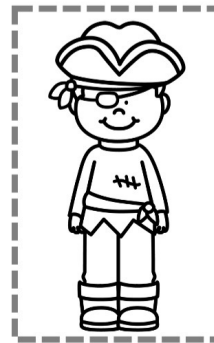
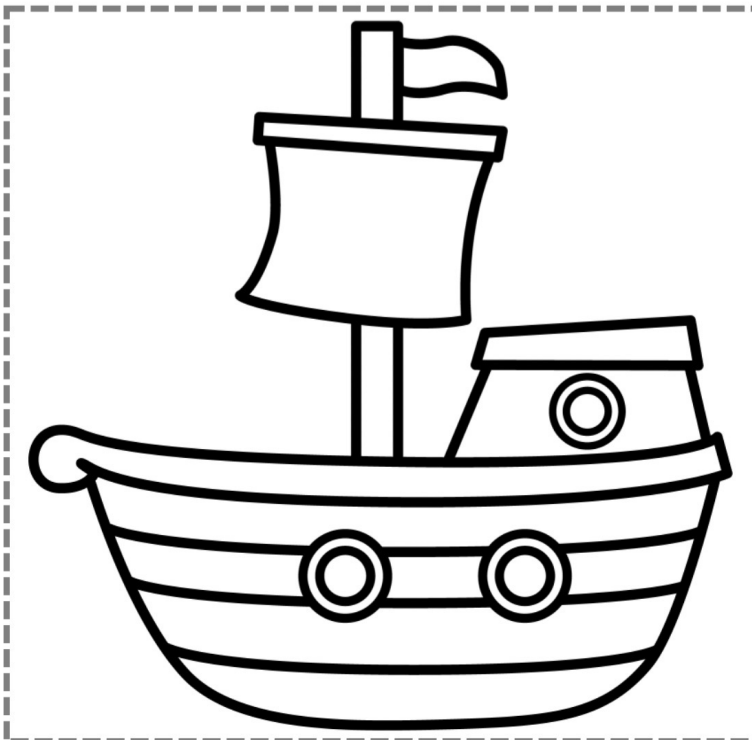
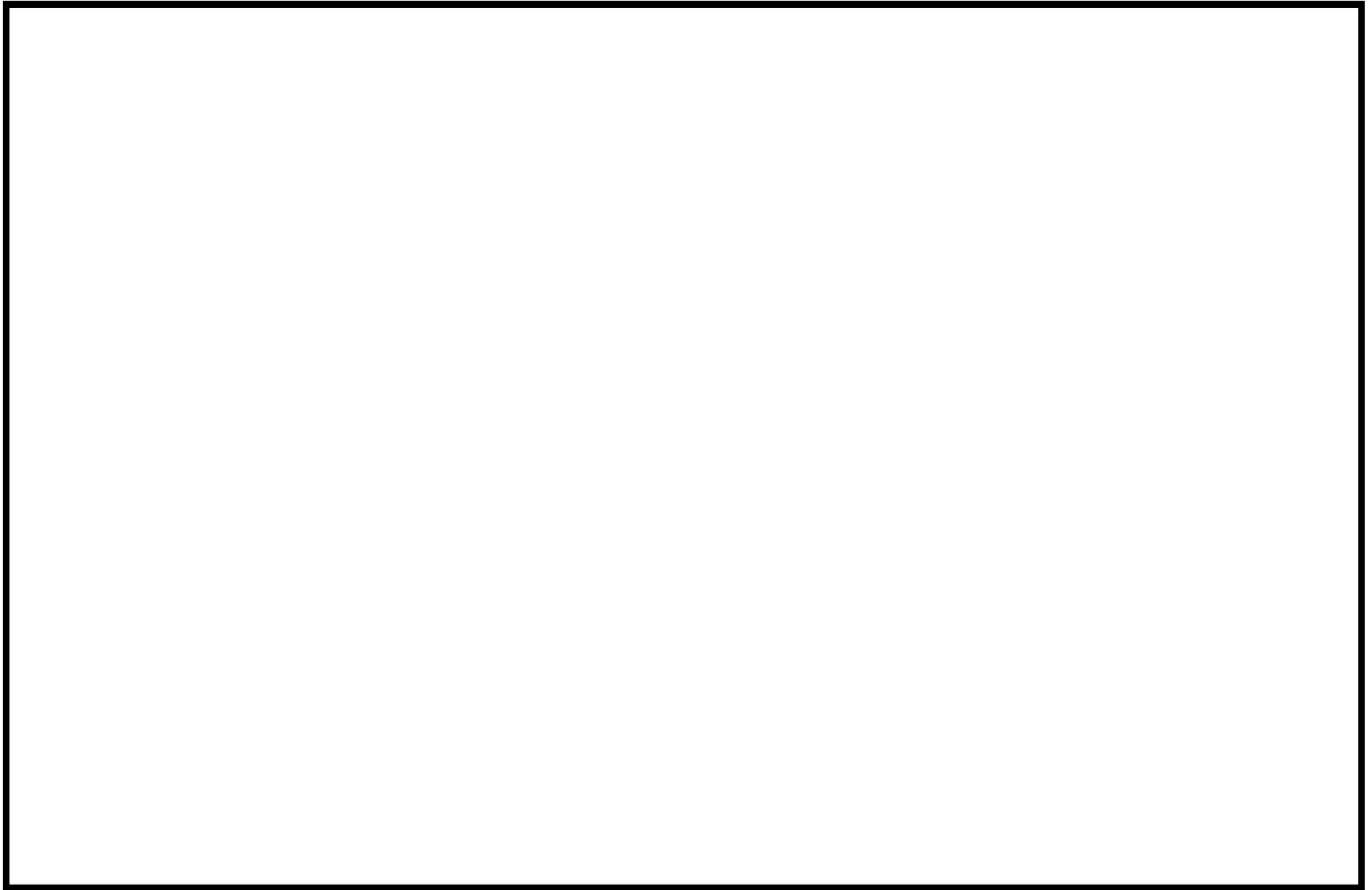




Pirate Ship

Name: _____

Cut and paste the pieces to make a pirate ship.





Pirate Ship Design Challenge

Name: _____

Design and build a pirate ship. Draw it.

Write about it.



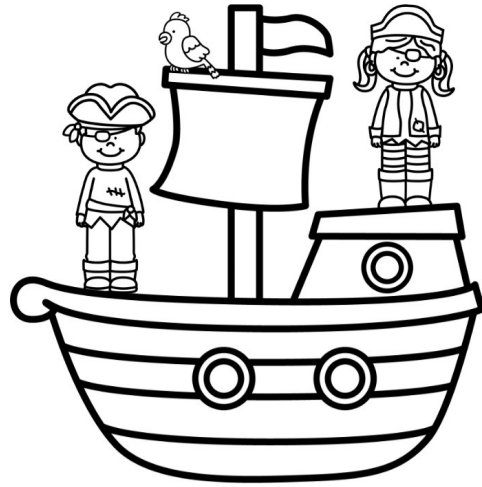
Pirate Ship Design Challenge

Name: _____

Design and build a pirate ship. Draw it.

Write about it.

Name: _____



Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line. There are ten such sets of lines on the page.