

Transportation Exploration

Connecting Through Play & Culture



Attributions

The CHILD Family Kits are a collaborative project under the Cultural Heritage Improves Learning & Development (CHILD) curriculum.

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BRIDGE - Borrow

Materials:

2 Books



Plush Canoe & Animals



Wooden Transportation Set

Now is a great time to practice counting skills by making sure all of the materials are in the kit!



Family Message

There are a variety of ways to travel around your community. Take time to share the importance of selecting the right method depending on the terrain, whether it be on a gravel road, through the tundra, or out on the water. What's your favorite way to get from place to place?

This kit includes:

- Books to explore different methods of transportation.
- A plush canoe & animals for snuggling while reading together.
- A set of wooden toys for pretend play.
- BRIDGE cards to explore this theme.

Enjoy this journey in learning about transportation!

Got 5 minutes? Read a story or choose a short activity.
If you have a larger amount of time, spend 20 minutes to complete the Kayak Design activity.

Story Time



Transportation Activities



Design a Kayak



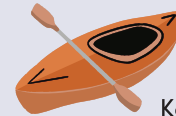
Career Connection



Bike



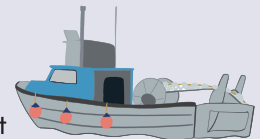
Truck



Kayak



ATV



Boat

BRIDGE - Read



My Bravo

Author: Jordan Kyak
Illustrator: Steve James

Picture Walk

Flip through the pages, without reading words, to highlight the illustrations and ask these guiding questions:

- What do you think this story will be about?
- Where did he drive his snowmobile?
- How is the snowmobile being used in this picture?
- Why do you think the characters look so excited?



Sharing Stories

Find a comfy spot and snuggle up for story time!

Ask Engaging Questions

How is Jordan's Bravo different from other snowmobiles?

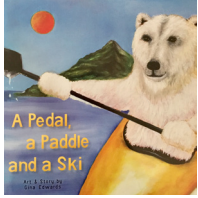
Why was Jordan so proud of his Bravo?

In what ways did he use his Bravo to help others?

What other types of transportation could we use when traveling around our community?



Jordan calls his Bravo a snowmobile. Many Alaskans call it a snowmachine or a sno-go. What do you call it?



A Pedal, a Paddle and a Ski

Author & Illustrator: Gina Edwards

Terrific Transportation

Where do you think this animal is going?

What other types of transportation could they use to travel in the water?

How are the animals traveling around their community?

What is your favorite way to explore the outdoors?



Adjectives Charades

Imitate how the animals from the story are moving!



*Extra Fun: Describe Shapes

Point to an image and add an adjective to describe it:

- This bike has **curvy** wheels.
- The kayak has a **triangular** front.
- The skis have **flat** bottoms.

CHILD DEVELOPMENT Vocabulary

Using common adjectives comes naturally to children (cold, hot, nice), so continue building their vocabulary and expanding their speech abilities by describing objects all around!

BRIDGE - Investigate

Traveling Guidelines

When traveling out into the wilderness, unexpected things may happen: weather conditions change, vehicles break down, trails change direction, or your travel buddies may get turned around from their original path. By following these guidelines, you will be prepared for any unexpected happening while on an adventure!

Remember these guidelines:



Be Prepared



Stay Calm



Be Observant

Honoring Connections

Modes of transportation have changed significantly over the years. Visit with an elder or long-time local to discuss how ways of travel may have changed in your community. Together, create drawings (on paper or in the sand) to illustrate the changes throughout time. Discuss how you traveled to school or to favorite locations around the community.

Thoughtfully listen as they:

- Recall the ways to travel places when they were younger.
- Share details such as their favorite location and who they were with on the adventure.
- Discuss being mindful & aware of changing weather and being prepared.

***Extra Fun:** Listen to [Elder Stories](#) (Apple App) to hear how elders from different regions traveled during their time growing up in different parts of the region.



It is beneficial to help your child know their full name, phone number, and where they live in case of an emergency.

Create Paper Spinners

Goal:

Make a paper spinner and test your creation to see who can get theirs to travel further.



1

Cut a piece of paper lengthwise so that it is about 8 inches long and $\frac{1}{2}$ an inch wide.

2

At one end of the strip, cut halfway across the strip. Turn the strip around and do the same thing make a small cut on the other end.

3

Link the two strips by inserting the cuts together to make something that looks like a small fish.

4

Bend the spinner so there is a crease on both ends. Use a small strip of tape to hold in place if needed.

5

Find a tall place to stand, drop your spinner, and watch it go. A higher location will result in more spins!

*Extra Fun:

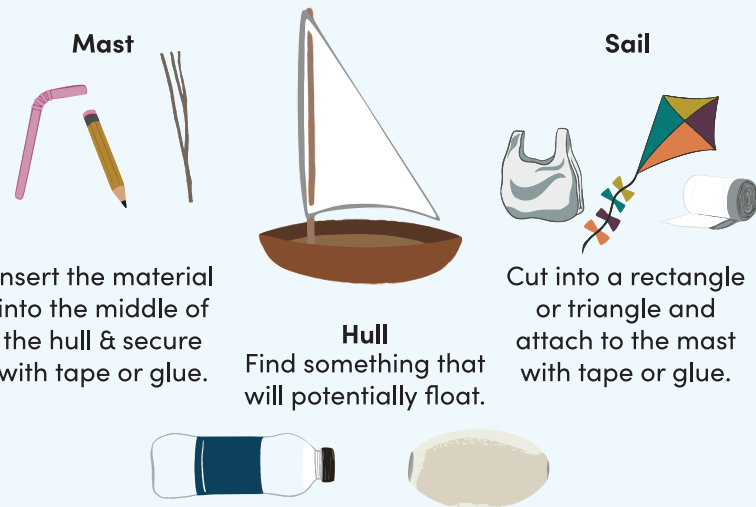
Find different techniques to make the spinners move: throw like a frisbee, change the shape or length of paper.



Design a Sailboat

Take a walk together and find materials that can be used to make your sailboat. Practice measuring to find appropriate proportions of items.

Make sure to include the following:



Insert the material into the middle of the hull & secure with tape or glue.

Find something that will potentially float.

Cut into a rectangle or triangle and attach to the mast with tape or glue.

Place into a pond or shallow lake to test!

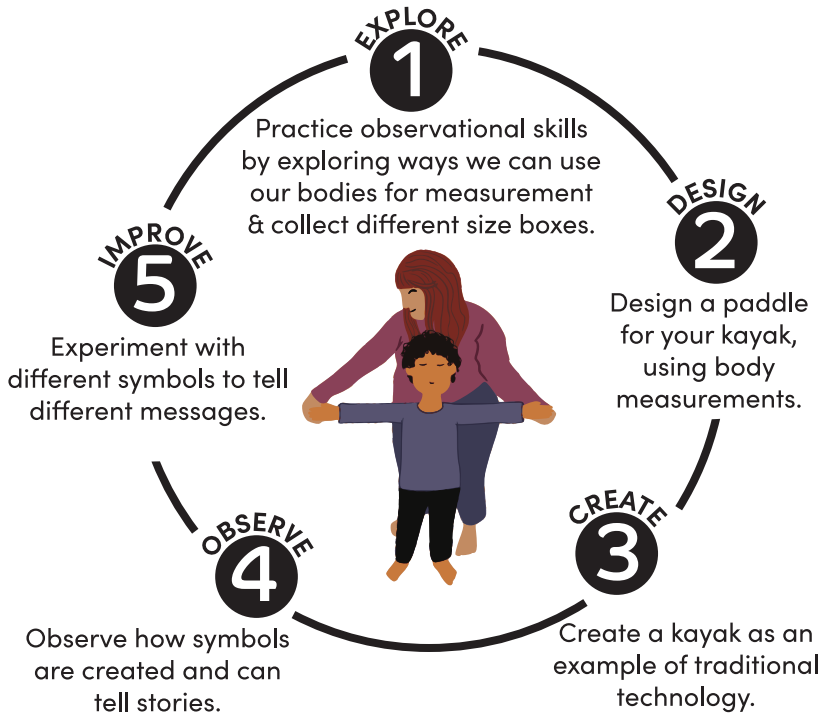
*Does your sail lean too much one way?
Is it off balance?*

The 5 Math Areas

Numbers & Counting
Patterns & Story Problems
Data Analysis & Probability
Measurement & Math Tools
Shapes & Spatial Awareness



BRIDGE - Design



K is for Kayak

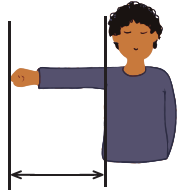
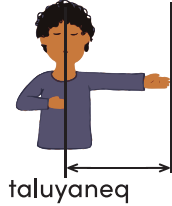
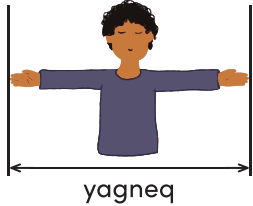
"I liked paddling in my box kayak. I loved it! I drew waves and the universe with all four directions. What will you draw on your paddle?"

See you next time! – Sawyer

...with **STEAM**

1 EXPLORE

Traditional Body Measurement



Practice the above measurements, as listed in Yu'pik, or in your traditional language.

Science

Scientists use precise measurements.

Collect Materials



Clear Tape



(1) 3-inch Screw



Green Wood
(birch, alder, or spruce)



Drill with
1/8-inch Drill Bit



Markers



Cardboard

Ask your child whether each material is technology. Have your child point to **technology** or **not**.



Guiding Questions:

Is it found in nature or invented by humans?
What is it made of? (discuss characteristics)
How is this tool helpful to humans?



Technology

Technology is human made instead of natural & is helpful to humans.

2 DESIGN

1 Body Measurements

Measure your child's arm span from the tips of each of their fingers on each hand. The entire paddle should be the length of your child's wingspan. Remember to account for the handle grip you will attach to the end of the paddle.



2 Create T-Grip Handle

Using a knife, make a slight notch on the end of the paddle.



Pre-drill a hole into the center of a small end piece of wood and attach it to the end of the paddle using a 1/8 inch screw.



Engineering

3 CREATE

3 Trace & Cut

Trace out the blade of the paddle on a cardboard box. Using a Vicky or serrated knife, cut out the paddle shape so that you have two sides.



4 Assemble Paddle

Use clear tape to secure the blade to the paddle.



5 Find a Box

Large boxes make perfect kayaks. Simply cut out a hole for the cockpit and let your child slide in and play for hours.



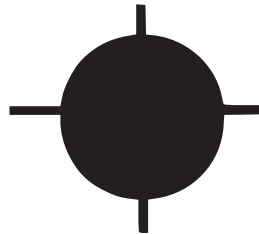
4 OBSERVE

Art Focus: Symbolism

Color a design with your child. For this project we talked about symbols found in the book, 'The Way We Genuinely Live.' The circles in this design represent the universe and the cross in the middle represents the 4 cardinal directions.



Lines can be curved, straight, wiggly, thin, thick, short, fat, etc.



Why is it Important?

Symbols allow artists and writers to tell a story and share ideas in a visual way.

Art

Artists gather, compile, and reflect on what they observe about art.

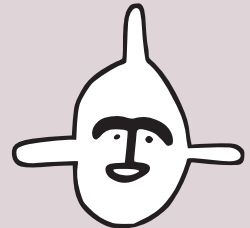
5 IMPROVE

Other illustrations you can choose:

What story would you like to tell? These are petroglyphs from Cape Alitak, Kodiak Island.



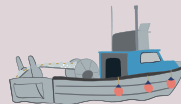
Wave



Seal Face



Face of Sea Monster



Math

What shapes are you using in your drawings?

BRIDGE - Grow

When I Grow Up...

Truck Drivers help bring food and supplies to our communities.

What is important to Truck Drivers?

★ Job Safety

Truck Drivers must drive carefully and make sure their trucks are in good working condition. They need to be aware of the weather and road conditions.

★ Teamwork

They work with local stores to bring supplies to the right communities before they run out. Mechanics help make sure their trucks are safe and loads are secure.

★ Practice

Truck Drivers must practice driving in poor conditions.



I can be a Truck Driver!

Truck drivers bring supplies to our communities, even in extreme weather! They need great coordination skills and may travel for days at a time.



As I Grow...

I can get to know my area.

MEMORIZE MY ADDRESS



LEARN PLACE NAMES



USE MAPS



BUCKLE MY SEAT BELT IN THE CAR

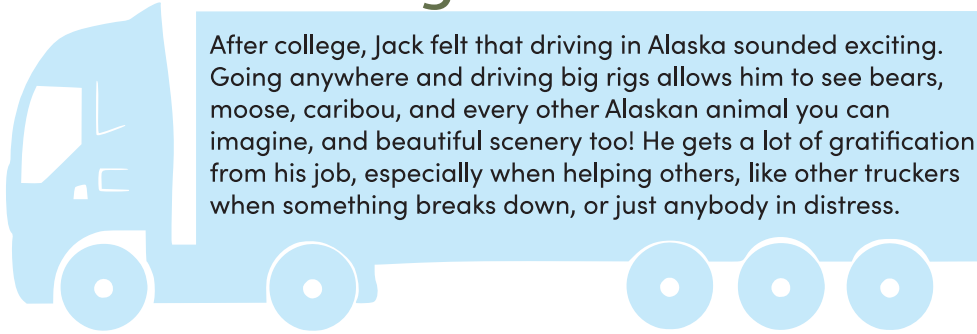




Meet Jack Jessee

Truck Driver, Carlile Transportation

Traveling Around



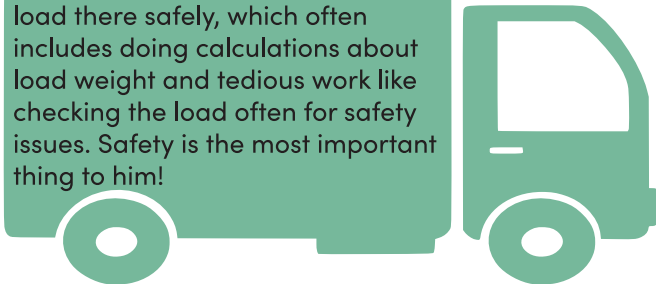
After college, Jack felt that driving in Alaska sounded exciting. Going anywhere and driving big rigs allows him to see bears, moose, caribou, and every other Alaskan animal you can imagine, and beautiful scenery too! He gets a lot of gratification from his job, especially when helping others, like other truckers when something breaks down, or just anybody in distress.

Aspects of the Job

Truck drivers need a commercial driver's license (CDL) to drive a big rig. Most people train at a truck driving school. There are many rules to learn and knowing how to fix things when they go wrong is important!

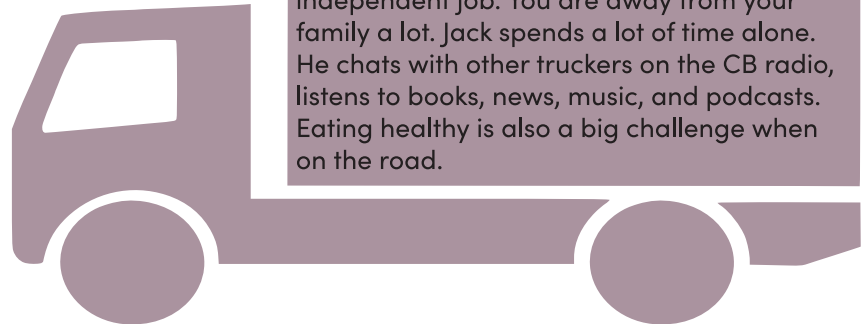
Responsibilities

Jack is responsible for getting the load there safely, which often includes doing calculations about load weight and tedious work like checking the load often for safety issues. Safety is the most important thing to him!



Challenges

Driving big trucks in Alaska can be a very independent job. You are away from your family a lot. Jack spends a lot of time alone. He chats with other truckers on the CB radio, listens to books, news, music, and podcasts. Eating healthy is also a big challenge when on the road.

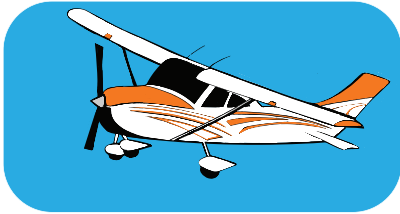


BRIDGE - Explore

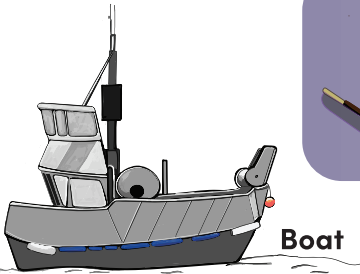
Explore the Language App!



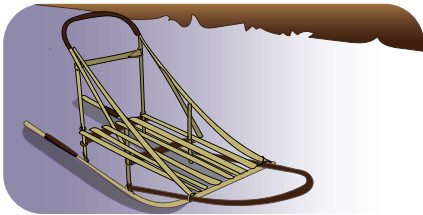
Can you find these words?



Airplane



Boat



Sled

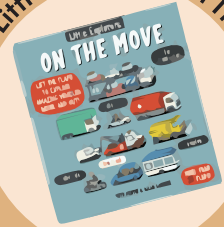
What to Explore Next?

We hope you have enjoyed this kit! Here are some ways you can continue to explore.

Share the Activities You Did Together



Read: Little Explorers, On The Move



Check Out Another BRIDGE Family Kit



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