

How to Build

BOXCARS

AND

TRUCKS





# How to Build BOX CARS AND TRUCKS

Jeff Barger



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## Before & After Reading Activities

### **Teaching Focus:**

Consonant Blends- Look in the book to find words that begin with a consonant blend such as dr or gl.

## **Before Reading:**

## **Building Academic Vocabulary and Background Knowledge**

Before reading a book, it is important to set the stage for your child or student by using pre-reading strategies. This will help them develop their vocabulary, increase their reading comprehension, and make connections across the curriculum.

- 1. Read the title and look at the cover. Let's make predictions about what this book will be about.
- Take a picture walk by talking about the pictures/photographs in the book. Implant the vocabulary as you take the picture walk. Be sure to talk about the text features such as headings, Table of Contents, glossary, bolded words, captions, charts/ diagrams, or Index.
- **3.** Have students read the first page of text with you then have students read the remaining text.
- 4. Strategy Talk use to assist students while reading.
  - Get your mouth ready
  - Look at the picture
  - Think...does it make sense
  - Think...does it look right
  - Think...does it sound right
  - Chunk it by looking for a part you know
- 5. Read it again.
- 6. After reading the book complete the activities below.

## After Reading:

## **Comprehension and Extension Activity**

After reading the book, work on the following questions with your child or students in order to check their level of reading comprehension and content mastery.

- 1. Describe how to make a cereal box car or truck. (Summarize)
- 2. The wheels of the car are connected by what piece? (Asking questions)
- 3. What object could be used to make the cab of your truck? (Asking questions)
- 4. How is the cereal box car or truck like cars and trucks you see on the road? (Text to self connection)

## **Extension Activity**

Ask some friends to have a series of contests where you race your cereal box cars or trucks. Create a chart where you record how far your vehicles traveled each contest. Use a yardstick or meter stick to measure the distance.

Content Area Vocabulary

body edge length opposite pierce width

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Roll with Jt! Let's go racing! In the house? Yes! We will make cereal box cars and trucks.

lesse 10

Make sure you have an adult's permission or supervision to use the tools and materials.

# You will need:



cereal box

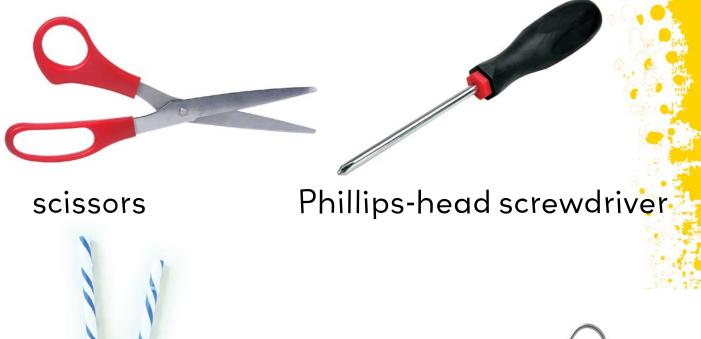




hot glue gun



3 wooden skewers 8 bottle caps



2 drinking straws





rubber bands

paper clip

# Ready? Set? Cut! Open the box. Remove the bag.

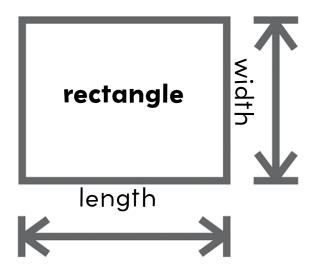
1 10 20





Glue the box shut. The box is the **body** of the car.

Find the bottom **edge** of the box. Cut a rectangle in the middle. The rectangle **length** is three inches (7.62 centimeters). The **width** is two inches (5.08 centimeters). Cut a similar rectangle in the front of the box at the top.



MAKE YOUR OWN ETSTRIK. Kelloggs.com OOIN Measure the box to find the middle. 11

# The wheels on the Box

Cut a drinking straw in half. Glue one half to the bottom left of the box. Glue the other half to the bottom right side.





Cut the other straw in half. Place a skewer in the straws for the axle.

# Glue two straw pieces on the **opposite** bottom end of the box. Place a skewer in the straws.





Do you want to make a truck? Place a tissue box on top of the cereal box to make the cab. Cut the top of the back half of the cereal box to make a truck bed.



Use the screwdriver to **pierce** a hole in the center of each cap. Glue a cap to the center of each side of the CDs. Place a CD on each end of a skewer. Now you have four wheels!



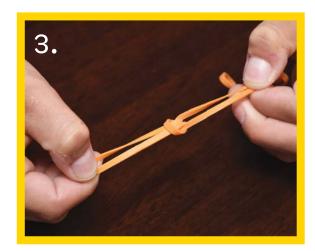
# Power Up!

# Cut a skewer in half. Glue it across the hole in the front of the box.



Next, make a chain of rubber bands.







Glue a paper clip on the middle of the back skewer. That will be a hook for the chain.



Loop one end of the rubber-band chain to the front axle. Hook the other end to the paper clip.







Turn the back wheels to wind up the car. Let go and watch it run!

# Photo Glossary



**body** (BAH-dee): The main or central part of something.



**edge** (EJ): The part of an object or area that is farthest from the center.



**length** (LENGKTH): The measurement of something from end to end.



# **opposite** (AH-puh-zit): Across from or facing.



**pierce** (PEERS): To make a hole in something.



**width** (WIDTH): The distance from one side of something to the other.



# Index

axle 13,20 CD(s) 6,16 edge 10 hook 20 screwdriver 7, 16 skewer(s) 6, 13, 16, 18, 20 wheels 16, 21

# **Further Reading**

Dees, Sarah, Awesome Lego Creations, Page Street Publishing, 2016. Lacey, Saskia and Sodomka, Martin, How to Build a Car: A high-speed



Meet The Author! www.meetREMauthors.com

adventure of mechanics, teamwork, and friendship (Technical Tales), Walter Foster Jr, 2015. Priddy, Roger, First 100 Trucks, Priddy Bicknell Books, 2016.

# About the Author

Jeff Barger is a literacy specialist who lives in North Carolina. He would like a rubber-band-powered car that he could drive to work.

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Can you race and recycle at the same time? Yes, by making a box car or truck! Using common household items, you can make a vehicle that will run across your floor or sidewalk.

### Alignment

*This title will allow students to analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.* 

## Books In The Series Step by Step Projects Include:



How to Bake a Cake





How to How to Build a Birdhouse Build Box Cars and Trucks



How to Grow a Garden



How to Make a Ki<mark>te</mark>



How to Make a Piñata



How to Make a Terrarium



How to Make an Ant Farm



How to Make Ice Cream



How to Start a Lemonade Stand



