



SUMMER!

FUN ACTIVITY BOOK



**LOWER
ELEMENTARY**

On TV. Online. Statewide. VISIT MichiganLearning.org












Week 4: Engineering

July 10-16

Tinker, design, build, rebuild, and find engineering everywhere. Our featured careers this week are engineers from all kinds of specializations, auto design director, and software developer. Scan the QR code or visit MichiganLearning.org/Summer/Engineering to explore all of our videos this week.

Use the sheet below to mark off this week's activities as you complete them. See if you can get a BINGO! Some of them are in this book, and some ask you to use your imagination or go outside.



Draw a family member's car	 60 mins. of activity	 Read for 20 minutes	Watch ArchiTREKS	Watch Read, Write, ROAR!
 Read for 20 minutes	 Watch Math Might	Name 3 things that use electricity	Ask a family member about their job	 60 mins. of activity
 60 mins. of activity	Try the hexagon challenge	 HAVE FUN! (Free Space)	Design a robot	 Read for 20 minutes
Watch Read, Write, ROAR!	Find a blue house	 Watch Math Might	Watch InPACT at Home	Design an Invention
Watch InPACT at Home	 Read for 20 minutes	Try a new food	 60 mins. of activity	Find a tall building in your neighborhood



Acting Out Structures



COLUMN



ARCH



COLUMN AND BEAM



DOMe



TENSION



CANTILEVER



LOAD AND SUPPORT



VAULT / TUNNEL



COMPRESSION



FLYING BUTTRESSES

How does your house stay standing? Architects use structures like columns, beams, and arches to make buildings strong and be sure they last for many years. Grab a grown-up or a friend and try to make columns, beams, and arches with your body!



ACTIVITY GUIDE

Episode 208: Authors Share Writing

Scan below to watch lesson



Sort It

Blends are created when two consonant letters blend together at the beginning of words, but we can still hear each of their sounds.

Read the words in the word box below. Write each word under their correct S-blend.

star spend swam spin sweater storm swim spot stop

sp	sw	st

Read It

Read the following sentences out loud. Underline the words with the **sp**, **sw**, and **st** blends.

1. We looked for a spot on the crowded beach.
2. "A storm is coming!" said Matt.
3. Other people continued to swim.

Draw It

Draw a picture to match the sentence.

I wore a sweater during the winter storm.

Look out for words with the **sp**, **sw**, and **st** blends when reading your favorite books.

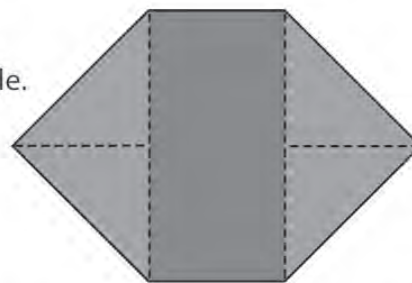


The Hexagon Challenge

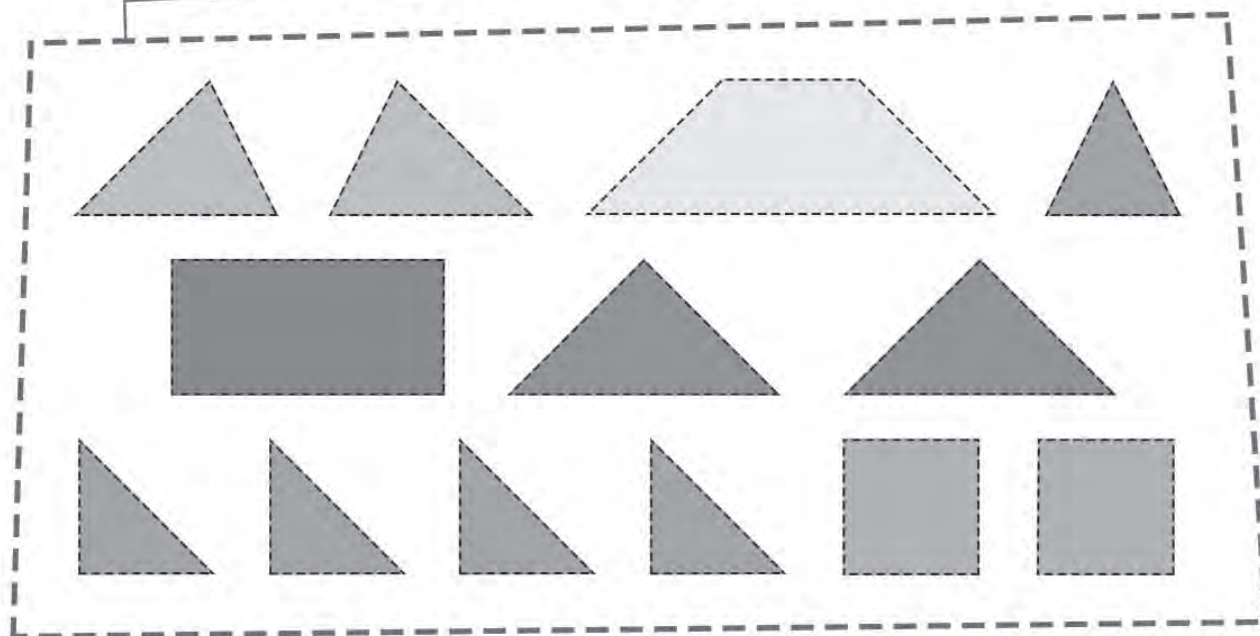
Use your Odd Squad agent skills to solve The Hexagon Challenge. Print out the two pages.

1. Cut out all the shapes from the Shape Box.
2. On the next page, mix and match your shapes to make a hexagon.
3. Record how you did it by drawing the lines of each shape you used like in the example at the top.
4. Reuse your shapes again and again to make more hexagon patterns. Try to find **8 different** ways to make a hexagon.

Here's a hexagon made with 4 triangles and a rectangle.



Shape Box



For more printables, go to pbskidsforparents.org

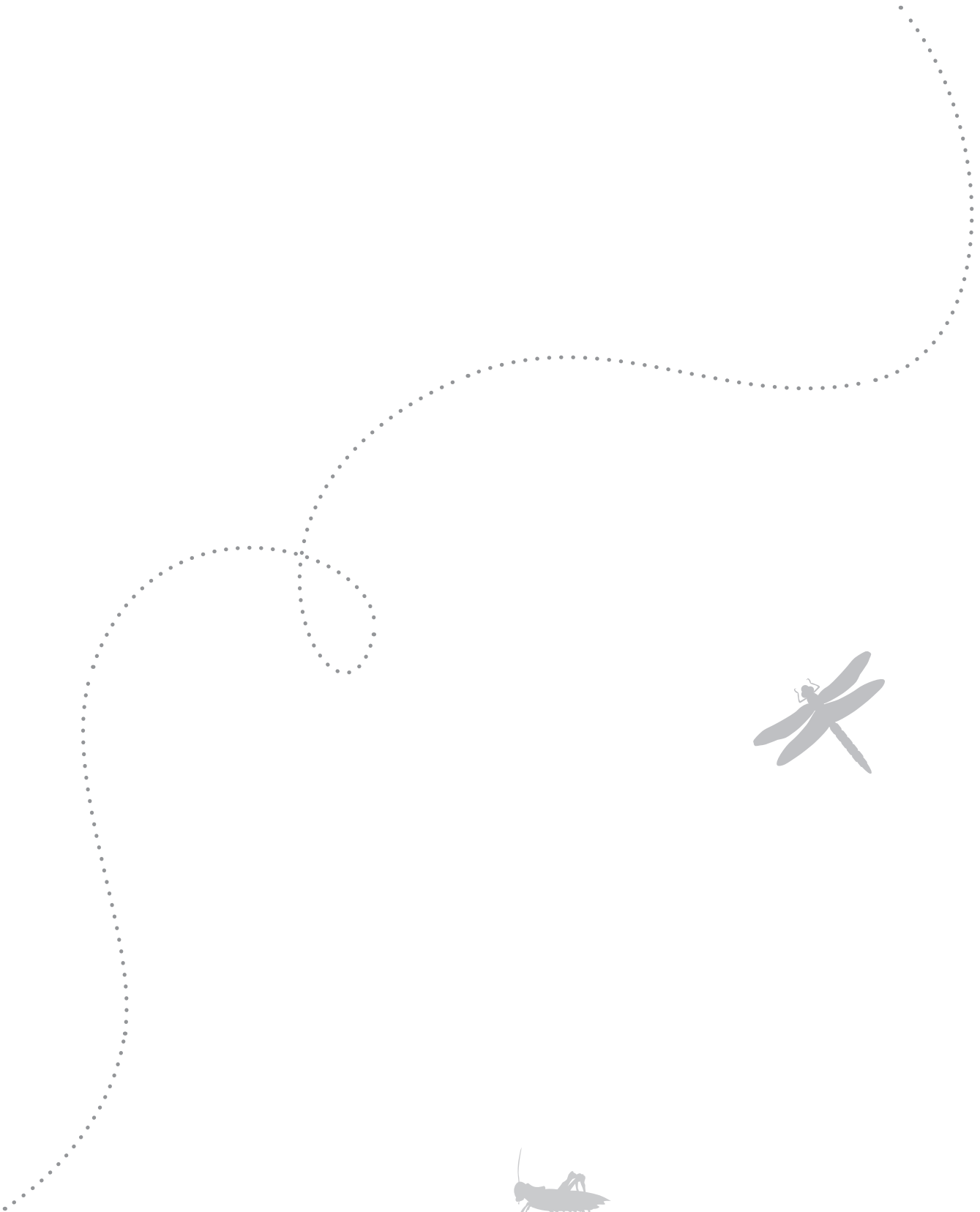


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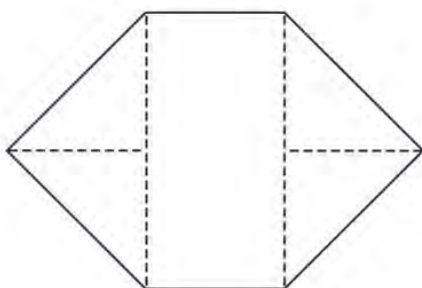


This page was left blank to cut out the activity on the other side.

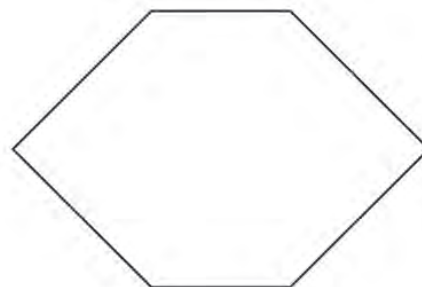
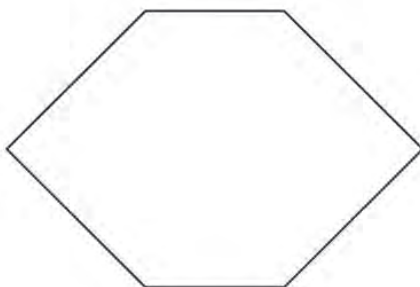
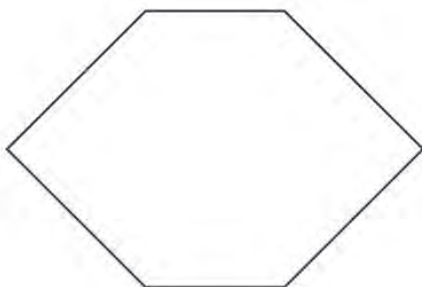
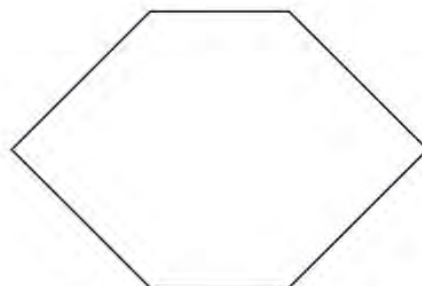
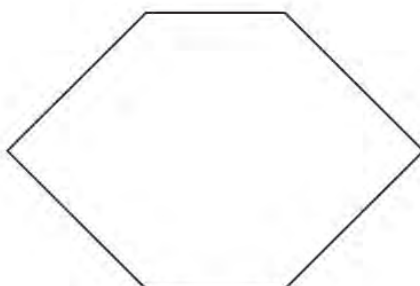
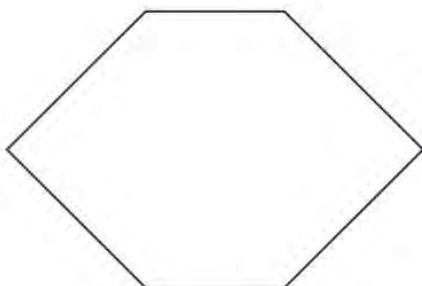
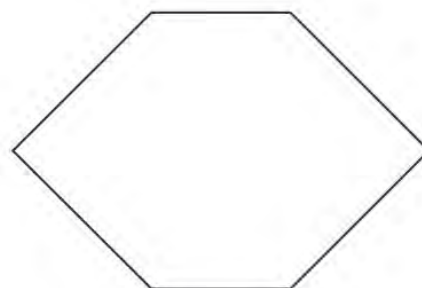
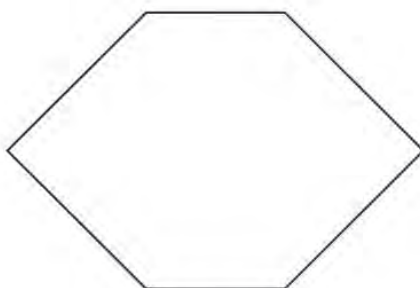




The Hexagon Challenge



Example



When you are finished with the challenge, check out some possible solutions at www.fredrogers.org/odd-squad-hexagon-solution/

For more printables, go to pbskidsforparents.org



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ACTIVITY GUIDE

Episode 208: Garbage vs. Recycling and Making Words

Book: *Garbage or Recycling?* by Deborah Chancellor and Diane Ewen

Scan below to watch lesson



Think About It

Read the following statements, Which are true and which are false?

It's impossible to recycle a soda pop can. _____

Over half of the garbage we throw out can be recycled. _____

Plastic garbage often ends up in the sea. _____

Words to Know

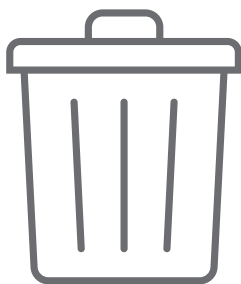
Recycling is when we take materials that we were going to throw away and put them through a process so they can be made into something else.

These symbols are found on **plastic** items that can be recycled.



Draw It

Look at each object. Decide if it can be recycled or if it should be thrown in the garbage. Draw a line from each object to where it belongs.





ACTIVITY GUIDE

Episode 207: Closed Syllables and Climate Challenges

Book: *Magic School Bus and the Climate Change Challenge* by Bruce Degen

Scan below to watch lesson



Read It

One strategy readers can use to read a word more accurately is to break it into syllables, or word parts.

Rules for Dividing Syllables

Every syllable has one vowel or vowel team.

- Place a dot under each vowel
- Underline any vowel teams,
- Divide between two consonants

Foundational Skills

A **syllable** is a word part that has one, and only one vowel sound. Sometimes a syllable will have more than one of these vowels, but they work together to make only one sound.

A **closed syllable** is a special kind of syllable. Closed syllables have **ONLY** one vowel that is followed by one or more consonants. Closed syllables **USUALLY** have vowels that make their short vowel sound.

Try It

Use the rules for dividing syllables above to break the words into word parts.

plastic

landfill



Near Doubles with Abracus

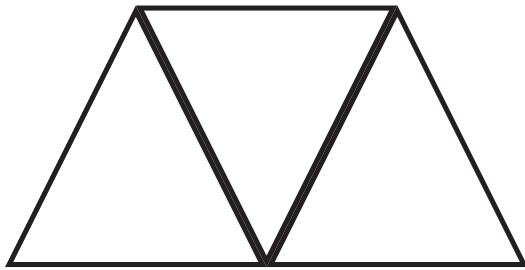
Directions: Use the ten frames to solve the problems.

Ten Frame	Double	Double + 1
	$7 + 7 = \underline{\quad}$	$7 + 8 = \underline{\quad}$
	$4 + 4 = \underline{\quad}$	$4 + 5 = \underline{\quad}$
	$8 + 8 = \underline{\quad}$	$8 + 9 = \underline{\quad}$
	$3 + 3 = \underline{\quad}$	$3 + 4 = \underline{\quad}$
	$6 + 6 = \underline{\quad}$	$6 + 7 = \underline{\quad}$

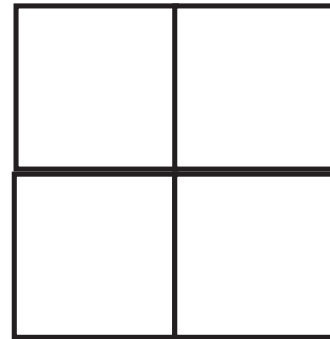


Describe The Shape

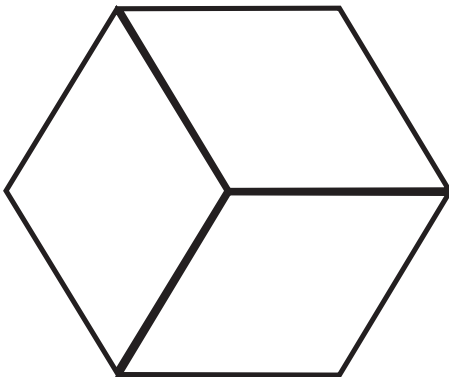
Directions: Fill in the blanks. (Example: The rectangle is made up of 3 squares.)



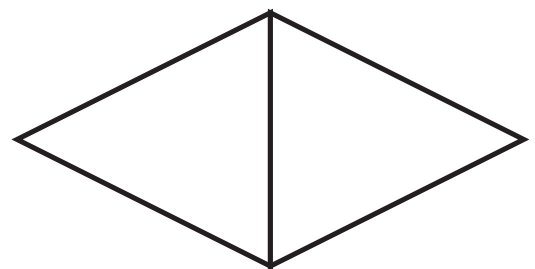
The _____ is made up
of _____.



The _____ is made up
of _____.



The _____ is made up
of _____.

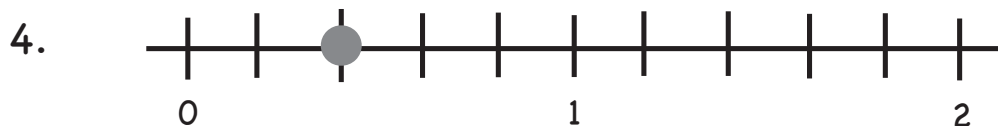
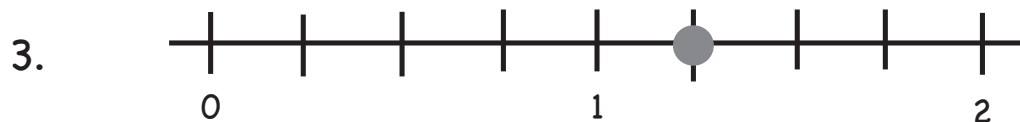


The _____ is made up
of _____.



Guess The Fraction

Directions: Guess which fraction is displayed with a dot on the number line. Label the fraction.





WHAT IS MEET UP AND EAT UP?

Meet Up and Eat Up provides FREE nutritious meals for children and teens 18 years and younger.

HOW DO I SIGN UP?

No application or sign-up needed, just come and join us!

WHERE IS IT?

To find a location near you

Visit: www.michigan.gov/meetupeatup

Call: 211

Text: Food to 304-304

Mande por texto "Comida" al 304-304



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LOWER ELEMENTARY

The contents of this book were developed under a grant from the U.S. Department of Education. However, those contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government. The project is funded by a Ready To Learn grant (PR/Award No. S295A200004, CFDA No. 84.295A) provided by the Department of Education to the Corporation for Public Broadcasting.