

MY FAMILY

DIGITAL ACTIVITIES
AND HANDS ON
engineering



STEM *and my* WORLD

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STEM ^{and my} WORLD **MY FAMILY**

1 BACKGROUND KNOWLEDGE

[CLICK HERE for Read Aloud](#)

Suggestions



Suggested read alouds are provided for you to spark student interest levels and build background knowledge for the topic.
(20 minutes)

2 DIGITAL ACTIVITIES

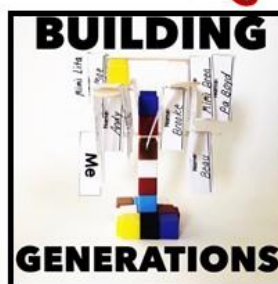
Pages 3-5



Students work independently or in small groups to complete a series of [interactive digital activities](#) using Google Slides on iPads, Chromebooks, or computers.
(20-30 minutes)

3 STEM CHALLENGE

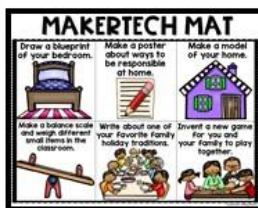
Pages 6-12



Students work in small groups to complete a hands-on STEM challenge.
(45-60 minutes)

4 MAKERTECH EXTENSIONS

Pages 13-14



Students work in a Makerspace to complete extension tasks either with technology or without technology.
(time frames vary)

STEM CHALLENGE

BUILDING GENERATIONS

Can you build a balanced family tree with as many family members as possible?

YOUR FAMILY TREE MUST:

- Have two or more generations
- Balance and stand on its own



YOU MAY USE:

- Unifix or linking cubes
- Popsicle sticks
- Family paper strips

BUILDING GENERATIONS

NGSS Standard Alignment: 2-PS1-3: Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. K-2-ETS1-1: Ask questions, make observations, and gather information about a situation.

MY FAMILY MEMBERS

Cut apart the strips of paper.
Write your family members' names on the one side and their role on the other side.
(I.e. Name: Andy, Role: brother)

BUILDING GENERATIONS

MY FAMILY TREE

How many PEOPLE are in my family tree?

How many GENERATIONS are in my family tree?

Does my family tree stand on its own?

BUILDING GENERATIONS

What are some Family members who live in our homes?

What is an immigrant?
Do we have students or families who are immigrants?
What country did they come from?

How are the Families in our class SIMILAR?

How are the Families in our class DIFFERENT?

WORDS TO KNOW

GENERATION



a set of family members on the same step

SIBLING



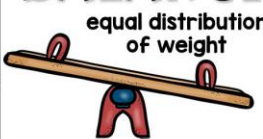
a brother or a sister

IMMIGRANT



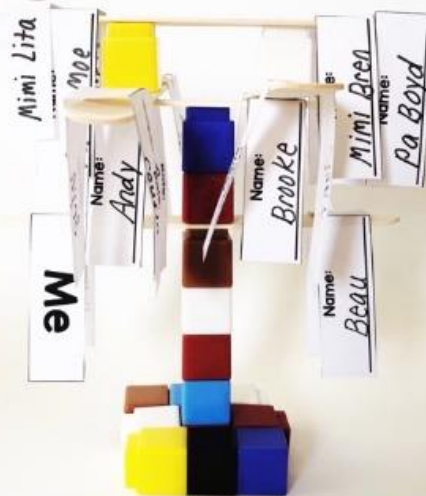
a person who comes to live permanently in a foreign country

BALANCE



equal distribution of weight

BUILDING

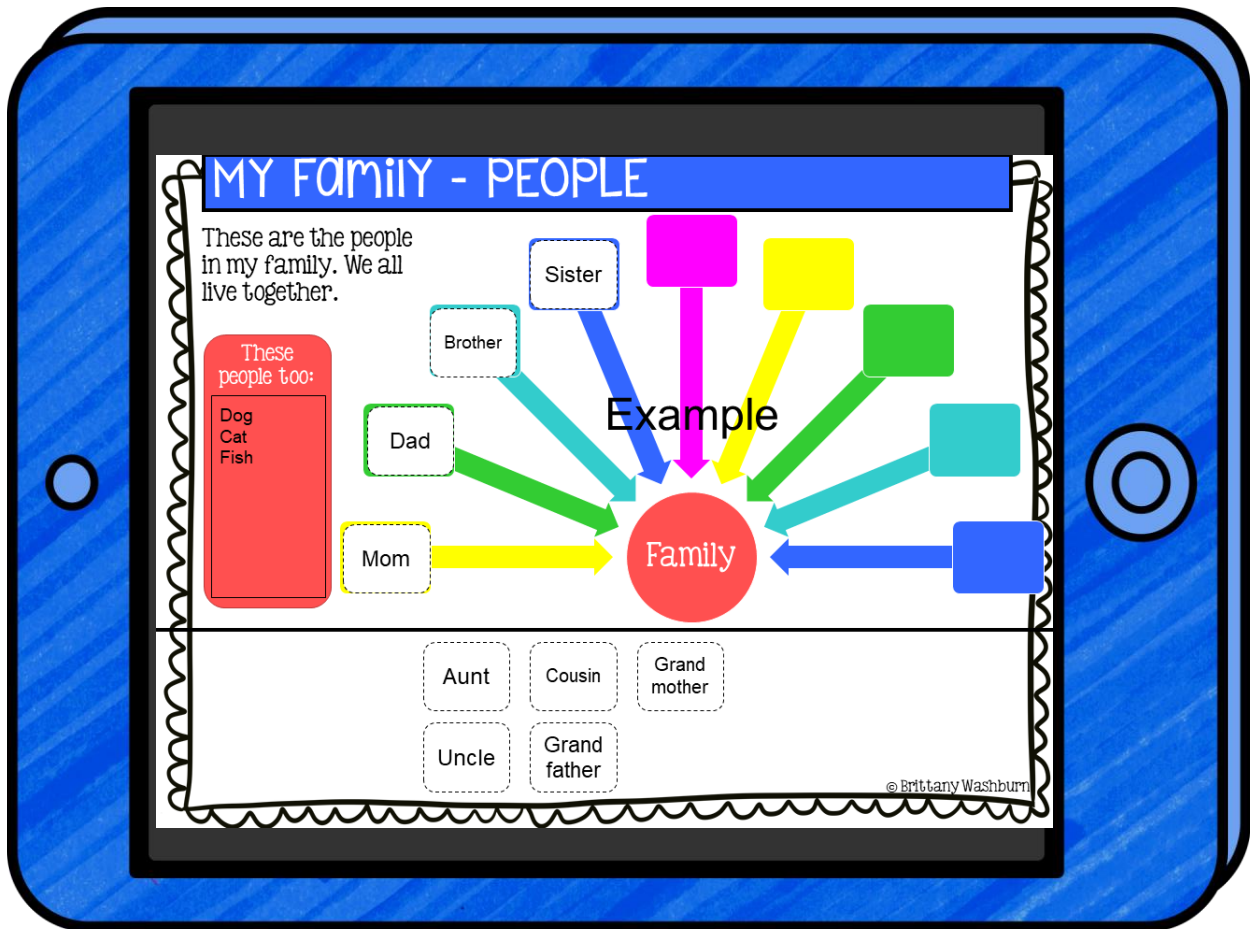


GENERATIONS

DIGITAL ACTIVITIES



WORKS ON ANY DEVICE WITH GOOGLE SLIDES OR POWERPOINT



DIGITAL ACTIVITIES



DIGITAL ACTIVITIES



DIGITAL ACTIVITIES

13 Digital Activity Slides

- ✓ CLICK AND DRAG
- ✓ TYPING

MY FAMILY

MY FAMILY - PEOPLE

This is how many people are in my family. We all live together.

Key:
Me
Mom
Dad
Brother

MY FAMILY - PEOPLE

These are the people in my family. We all live together.

Sister

Brother

THINGS WE DO

Fill in with things about you

MY FAMILY - SIBLINGS

In my family, I am:

My Siblings names are:

FAMILIES- ADJECTIVES

Write all of the kind adjectives you can think of for families

Families are:

Example: loving

MY FAMILY- MY RESPONSIBILITIES

Take care of for your family?

With siblings

At the table

Responsibilities

youngest

oldest

middle

only

OUR FAMILIES- PETS

Type of Pet

of Pets

OUR FAMILIES- TYPES OF HOMES

Type of Home

of students

How many times have our classmates moved?
Type names or the number of people.

1	2	3	4	More
---	---	---	---	------

Things to include:
✓ Doors
✓ Windows
✓ Beds
✓ Dressers
✓ Closets
✓ Shelves
✓ Toy bins
✓ Desks

What are the pets in my family:

SIBLINGS

How many sisters do we have in our class?

Example

27

31

Youngest 4

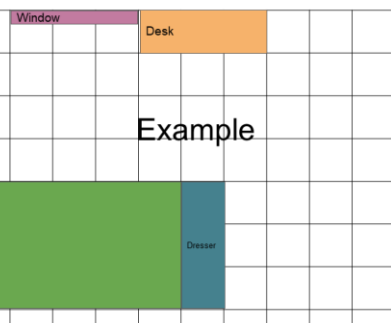
Only 4

BROTHERS

SISTERS

MY FAMILY- MY SPACE

Use the shape tools to make a map of your room. Label each shape.



MAKERTECH EXTENSIONS

MAKERTECH MAT

Draw a blueprint
of your bedroom.



Make a poster
about ways to
be responsible
at home.



Make a model
of your home.



Make a balance scale
and weigh different
small items in the
classroom.

Write about one of
your favorite family
holiday traditions.

Invent a new game
for you and
your family to play
together.

MAKE IT WITH TECH

Animation



ANIMATE IT

Scratch Jr



CODE IT

Google Draw



DESIGN IT

Pic Collage



LABEL IT

iMovie



FILM IT

Apple Notes



DESCRIBE IT

Stopmotion



RECORD IT

Tellagami



TELL IT

Paper



DRAW IT



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