

little learners science

ALL ABOUT PUMPKINS



pumpkin weigh It!

Pumpkin weighs the same as...

chains



cube

bears

pumpkin Journal



pulp



strands

LIFE CYCLE OF A PUMPKIN



seed

sprout

plant

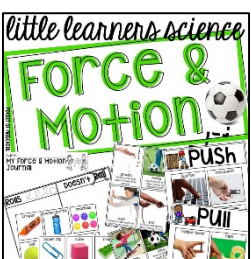
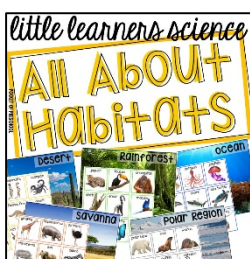
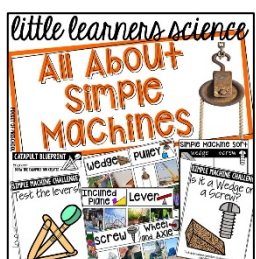
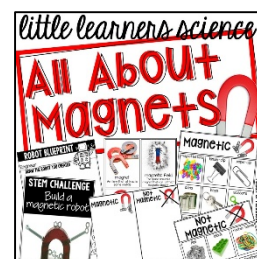
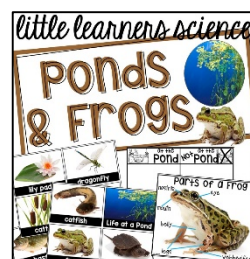
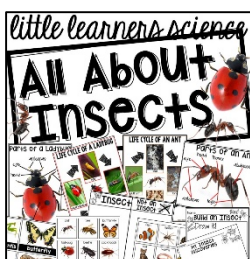
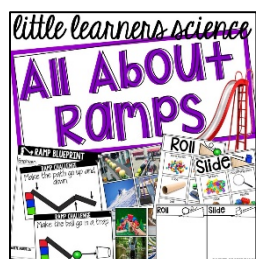
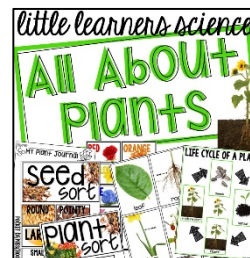
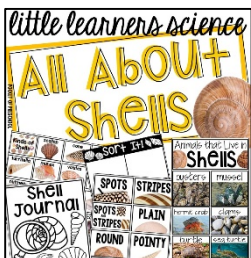
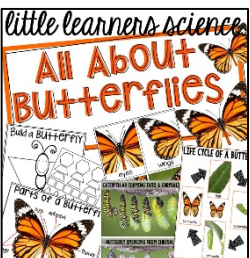
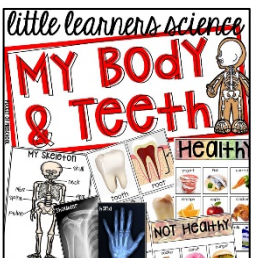
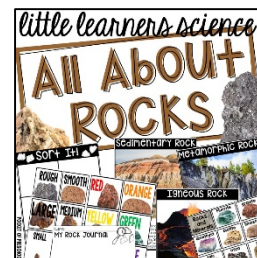
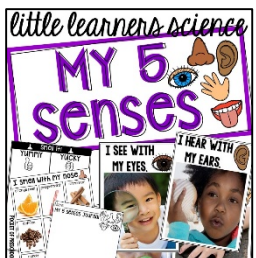
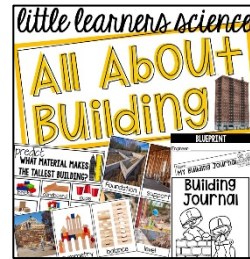
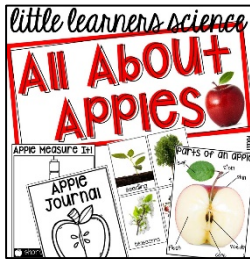
flower

pumpkin

green pumpkin

Little Learners Science Curriculum

Click on the cover to check it out!





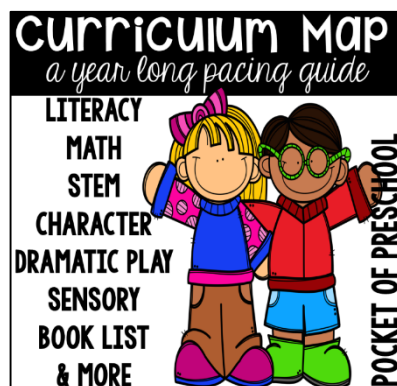
little learners
Science

Questions about
the Little
Learners Science
Curriculum?

Check out [this blog post](#)
that has all the details!



Need more Binder
covers? Grab [THIS](#)
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Download the **FREE**
[Curriculum Map](#) to see how the
Little Learners Science Curriculum can
be taught throughout the school year
with various learning themes and
seasons or as needed.

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inspiration, updates, and a HUGE writing
center FREEBIE!



WANT TO PRINT IT SMALLER OR LARGER?

Print something smaller to save ink and paper or print it poster size.

Make sure you have the latest edition of Adobe Reader, and that your computer is opening this file in Adobe (not your computer's default reader or online).

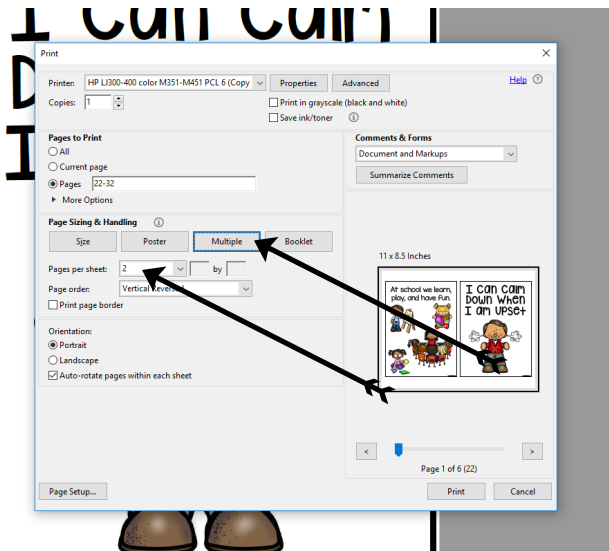
Print SMALLER Directions: To print it smaller in size

- Select File then Print or select the Print icon
- Select Multiple
- Click on the Pages per sheet and choose the number 2, 4, 6, 9, 16, or custom

Print BIGGER Directions: To print it larger in size

- Select File then Print or select the Print icon
- Select Poster
- In the Tile Scale box, choose the percentage you want it to print
- Click the arrow to check how it will look when printed and pieced together

Print SMALLER



Print BIGGER

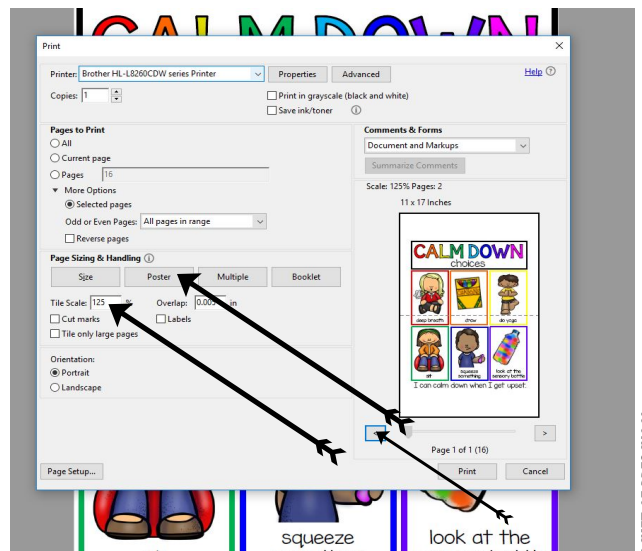


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**All About
pumpkins**



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**All About
pumpkins**

LABELS

Included are many labels you can use to organize all the science items included in this pack. Use the size that works best for your container.

If you want a binder cover or binder spine use pages 7 and 8.

little learners
SCIENCE

All About Pumpkins



All About Pumpkins



SCIENCE TABLE OR SHELF: Use a small table or a small bookshelf to create an engaging science center full of hands on materials for students to explore and investigate!

SCIENCE READ ALOUD & CONNECTING ACTIVITY: During circle time read a science book. Then do one of the included connecting activities (see suggested reading list).

SCIENCE TALKS: During circle time have “science talk” to:

- introduce the new science study and vocabulary words
- share students’ ideas, misconceptions, and discoveries
- test students’ discoveries
- complete included charts
- pose and investigate one of the included questions

DISCOVERY SHOUT OUTS: When a student makes a discovery call the class over and let the student share and show their discovery with the group. It only takes 3ish minutes but it is POWERFUL. Students learn so much from each other.

If a student doesn’t want to share, explain it for them and they can point to the various parts as you explain it for them. As students feel safe and build confidence hopefully they will want to share their discovery with the class.

This could be during center time or if you break up into trios/pairs for science investigations

How to Set up the Science Table or Shelf

(this is an IKEA Lack Table)



Suggested Materials

- Magnifying glass
- Various science tools to match the science mat
- PUMPKINS (various sizes, colors)
- Cut open pumpkins for students to dissect & examine
- Pumpkin seeds
- Included printables
- Books (see book list)

BOOK List

- From Seed to Pumpkin
by: Wendy Pfeffer
- Seed, Sprout, Pumpkin, Pie
by: Jill Esbaum
- Pumpkin Jack
by: Will Hubbell
- It's Pumpkin Time!
by: Zoe Hall



Document Student Learning

- Make a class discovery journal and place student discovery pages inside
- Hang students' discovery pages on the wall.
- Take photos of students investigating and post them in the center.

Use a small table or a small bookshelf to create an engaging science center full of hands on materials for students to explore and investigate!

How to Set up the Science Table or Shelf

(this is an IKEA Lack Table)



Pumpkin Insides Bag

- Cut open pumpkins for students to dissect & examine
- Scoop out the insides and place in a THINK baggie. Tape the top closed if you think your students will open the baggie.
- Place the baggie at the table for students to examine and explore.
- A mess free way to explore the insides of a pumpkin 😊

VOCABULARY CARDS

Print the cards and place in the center.

Options:

- Create an anchor chart with the cards and included header "All About Pumpkins"
 - I stapled a ribbon to the wall and clipped the cards to it with small clothespins. This way I could easily take down the cards to use for science talks, circle time, etc.
- Put the cards by objects on the science table/shelf
- Place the cards on a metal ring



These were printed smaller.





gourds



seeds



sprout



pumpkin plant



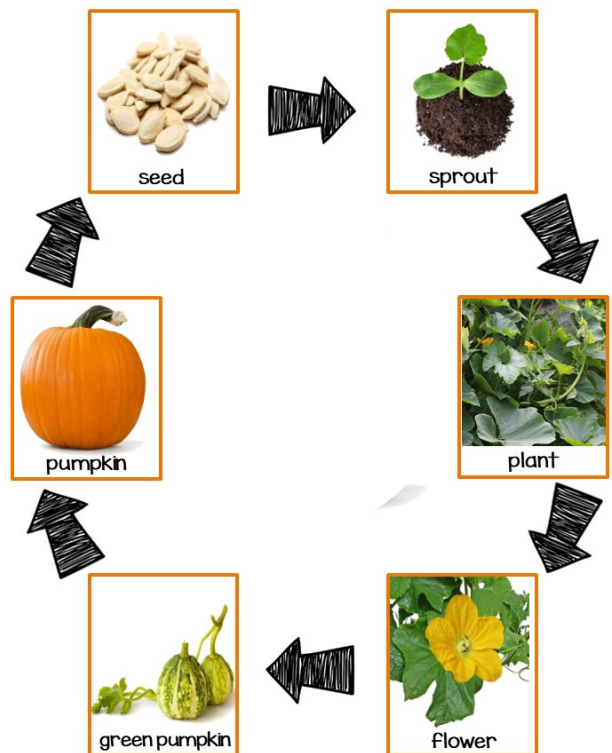
flower



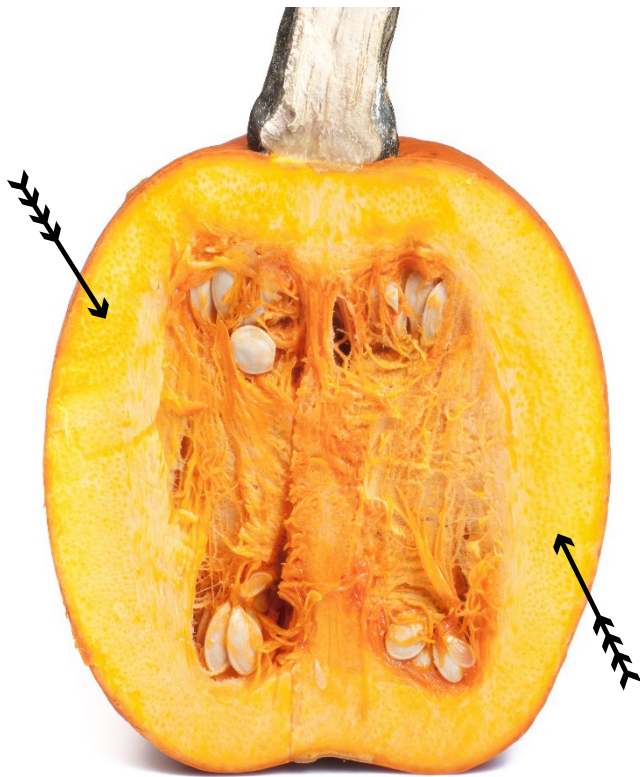
green pumpkin



pumpkin



life cycle



pulp



stem



strands



vine



bumpy



skin



pumpkin patch



smooth

ALL

ABOUT

PUMPKINS

ACTIVITY CHARTS, SCIENCE PROMPTS, & MINI EXPERIMENTS

Give students an opportunity to predict, explore, observe, test, examine, and collect data through experiments and investigations at the science table.

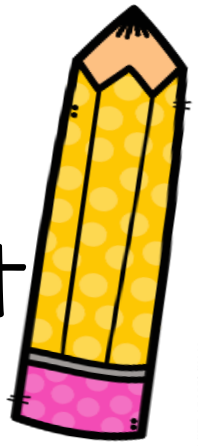
Options:

- Place the mini science prompts by the corresponding tool.
- Activity Charts
 - Laminate and place in the center to use as a science mat with the appropriate tools.
 - Print and place in a dry erase pocket and use as a science activity chart with the appropriate tools.
 - Print and use as a recording page.





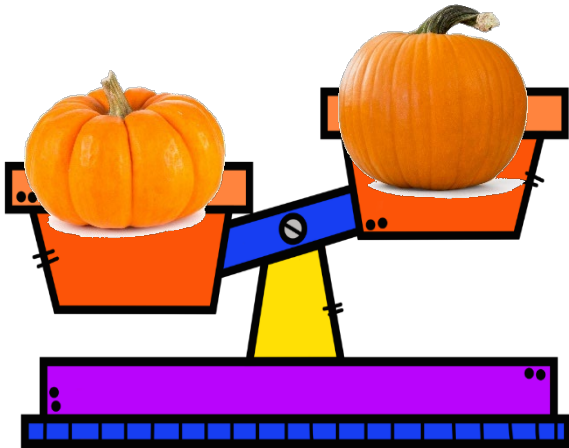
Use the magnifying glass to look closer.
Draw and write about what you see!



POCKET OF PRESCHOOL

Print and laminate.
Place next to the magnifying glasses.

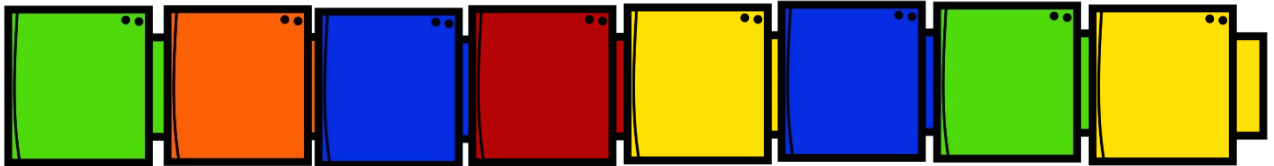
Print and laminate.
Place next to the scale.



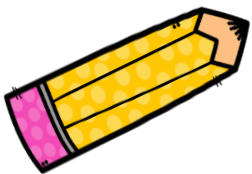
Put the items on the scale to compare how much they weigh.

Which weighs more?

Print and laminate.
Place next to the cubes.



Use the tools to measure.



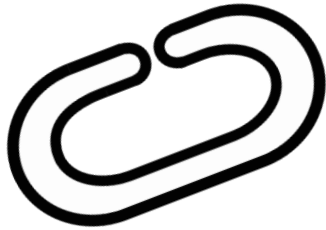
How long is it?
How wide is it?



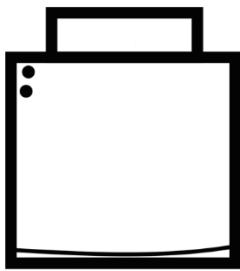
pumpkin weigh It!

Pumpkin weighs the same as...

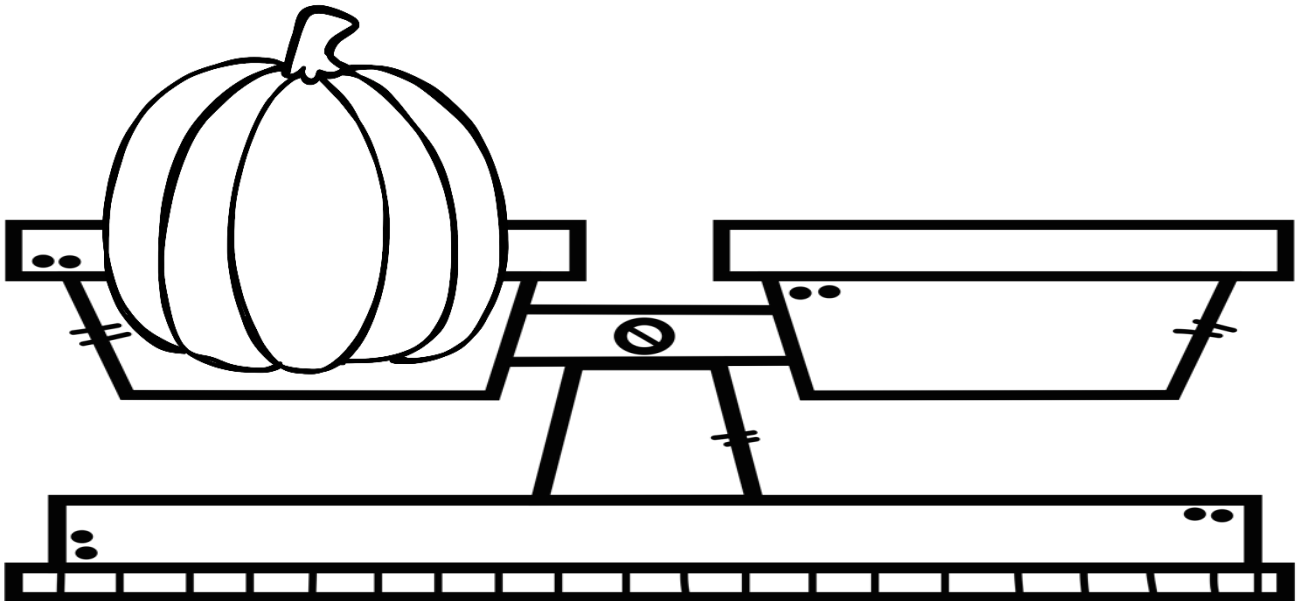
chains



cubes



bears



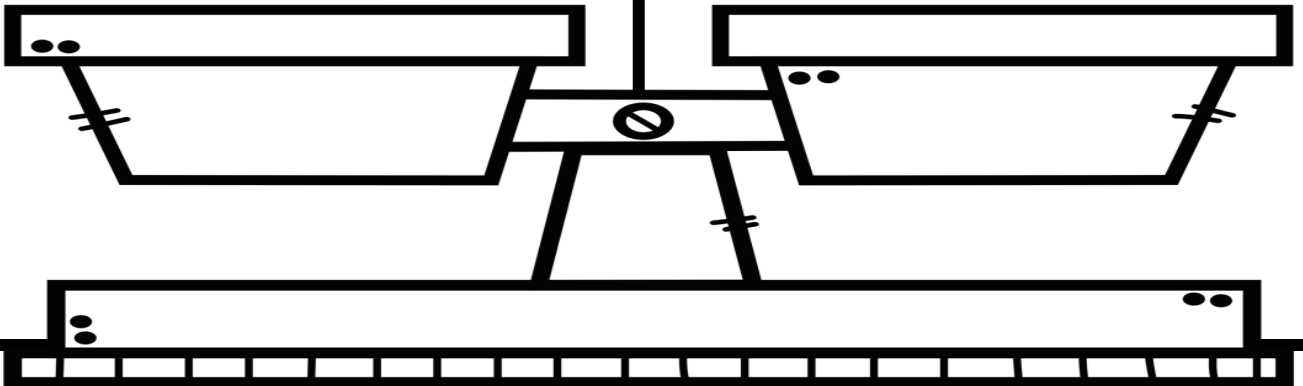


Pumpkin Weigh It!



heavy

light



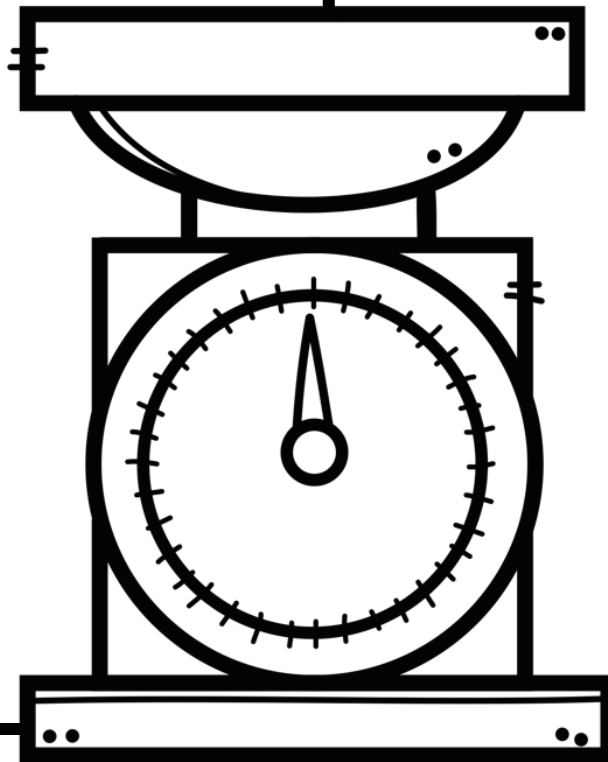


Pumpkin Weigh It!



heavy

light



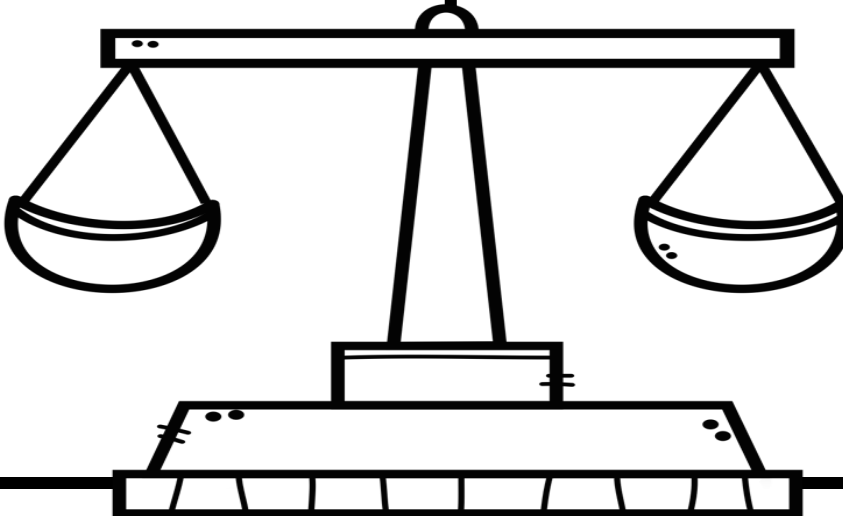


Pumpkin Weigh It!

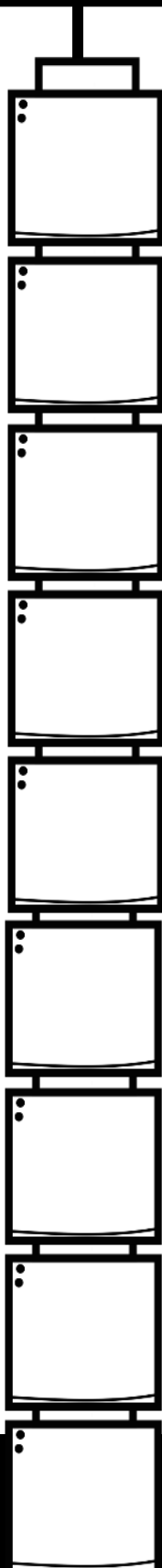


heavy

light

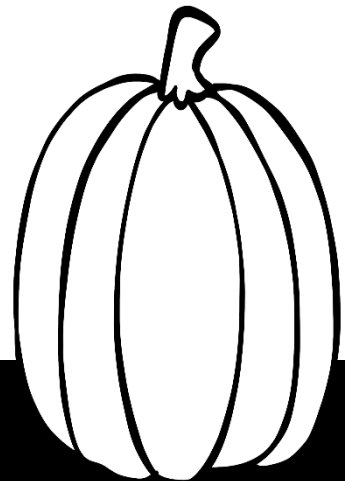


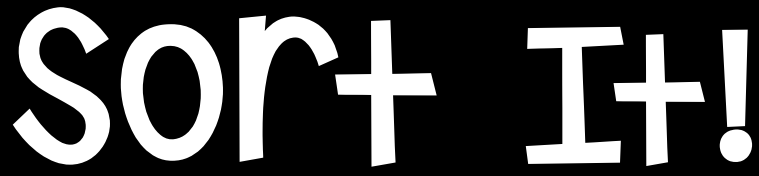
pumpkin Measure It!



short

tall





Sort + It!

--

--

--

Sort + It!

BUMPY



SMOOTH



LARGE



MEDIUM



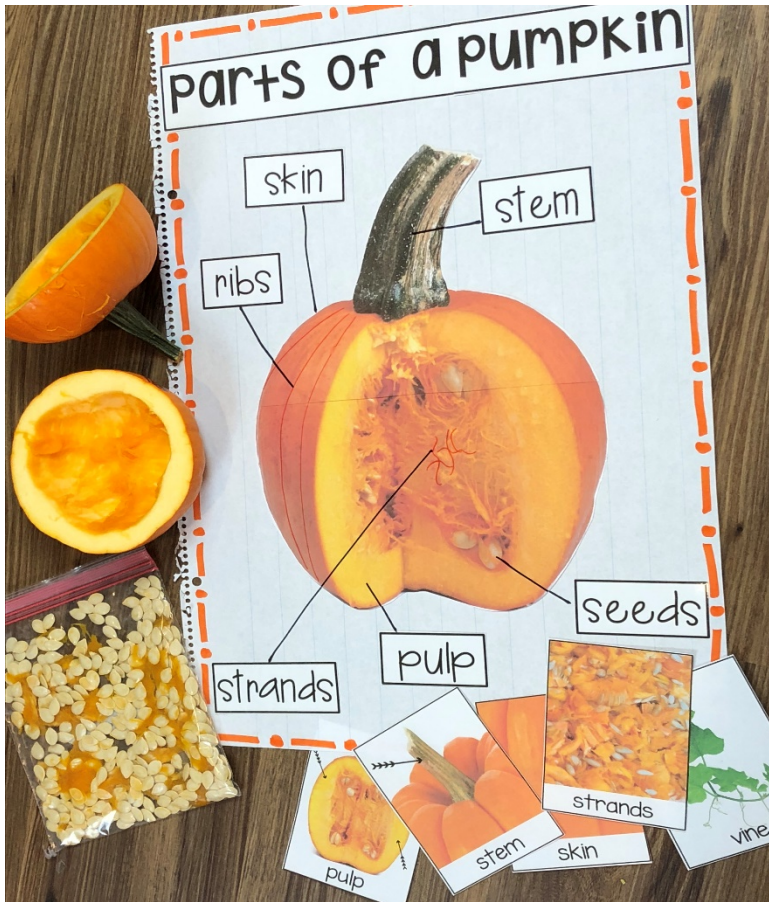
SMALL



PARTS OF A PUMPKIN ANCHOR CHART:

During circle time create the anchor chart with the whole class after a read aloud, after an investigation, or during a science talk.

- Create the chart and label the pumpkin using the word cards. Then describe each label & write their answers around or under it on the anchor chart.

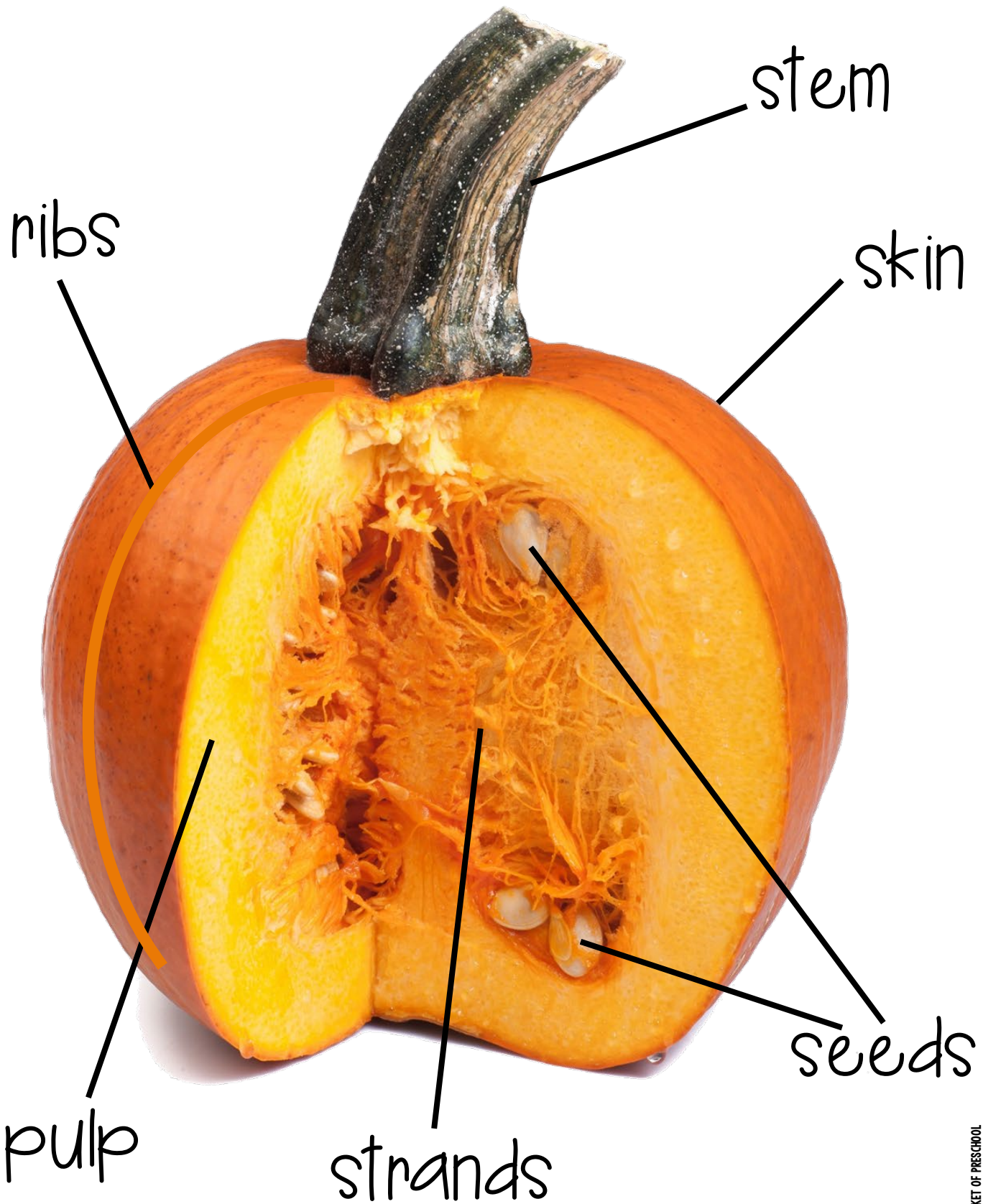


MINI ANCHOR CHART:

Print and place in the center.



Parts of a pumpkin



parts of a

pumpkin

seeds

strands

skin

pulp

ribs

stem

PARTS OF A PUMPKIN ANCHOR CHART PIECES



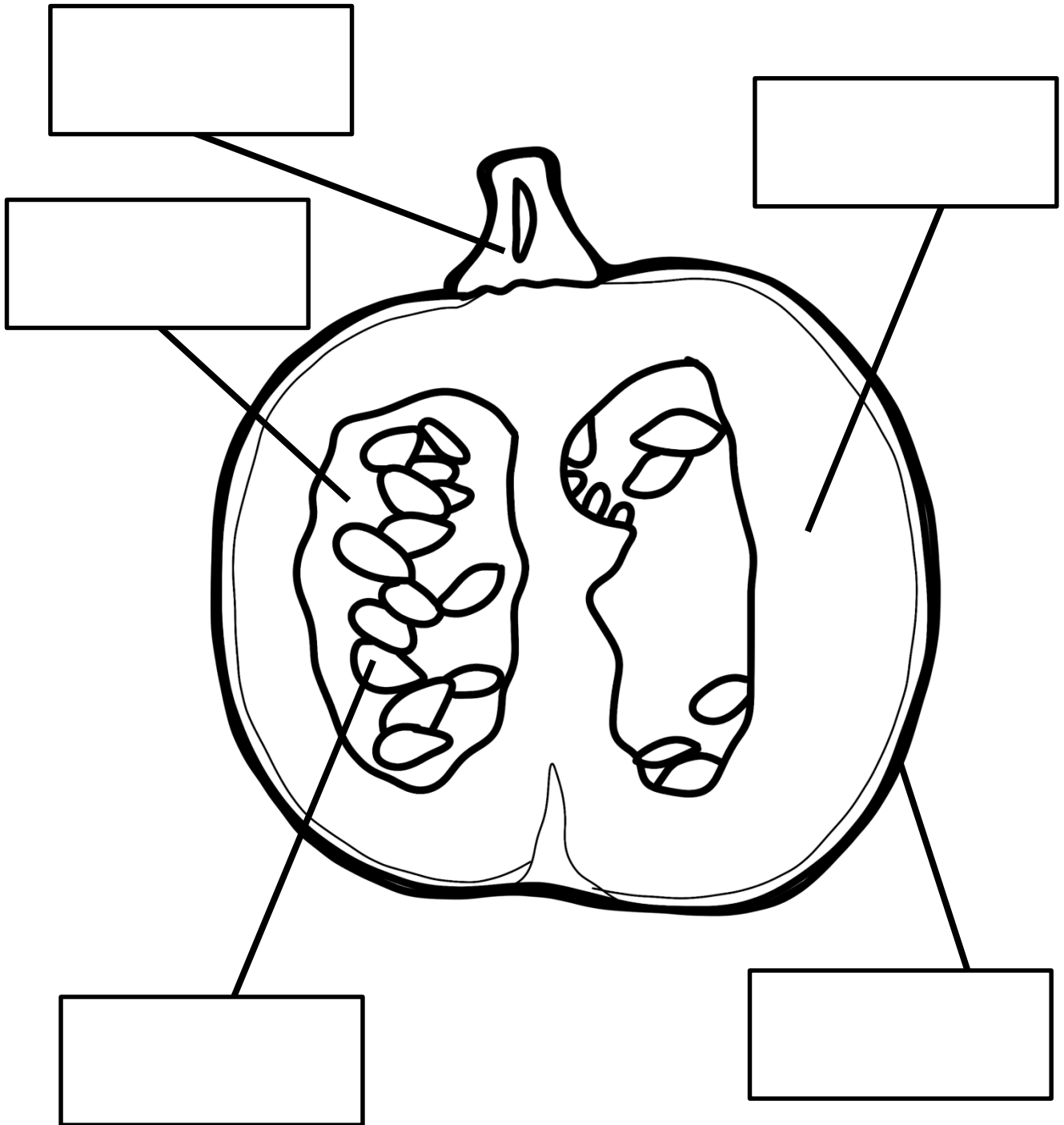
PARTS OF A PUMPKIN ANCHOR CHART PIECES



Name: _____

Label It! Parts of a Pumpkin

skin stem pulp seeds strands

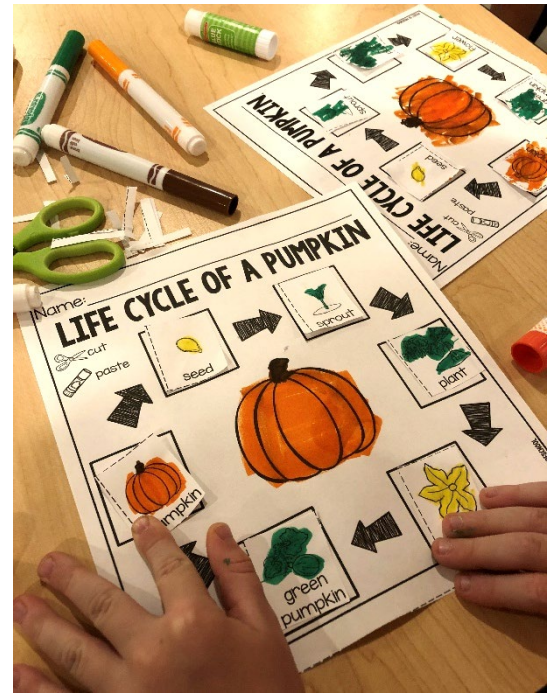


LIFE CYCLE OF A PUMPKIN CARDS

Print the cards and place in the center.

Options:

- Create an anchor chart with the cards and included header "Life Cycle of a Pumpkin"
- Put the cards on the wall
- Put the cards by objects on the science table/shelf
- Place the cards on a metal ring



LIFE CYCLE OF A PUMPKIN POSTERS & WORKSHEET

Print the posters and place them in the center.

Make it an interactive chart by having students match the cards on the life cycle poster. Use Velcro to attach the pieces to the poster.

LIFE CYCLE

OF

A

PUMPKIN

SEED



SPROUT



PLANT



FLOWER



GREEN PUMPKIN



PUMPKIN



SEED



SPROUT



PLANT



FLOWER



**GREEN
PUMPKIN**



PUMPKIN



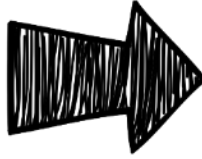
LIFE CYCLE OF

A PUMPKIN

LIFE CYCLE OF A PUMPKIN



seed



sprout



plant



flower



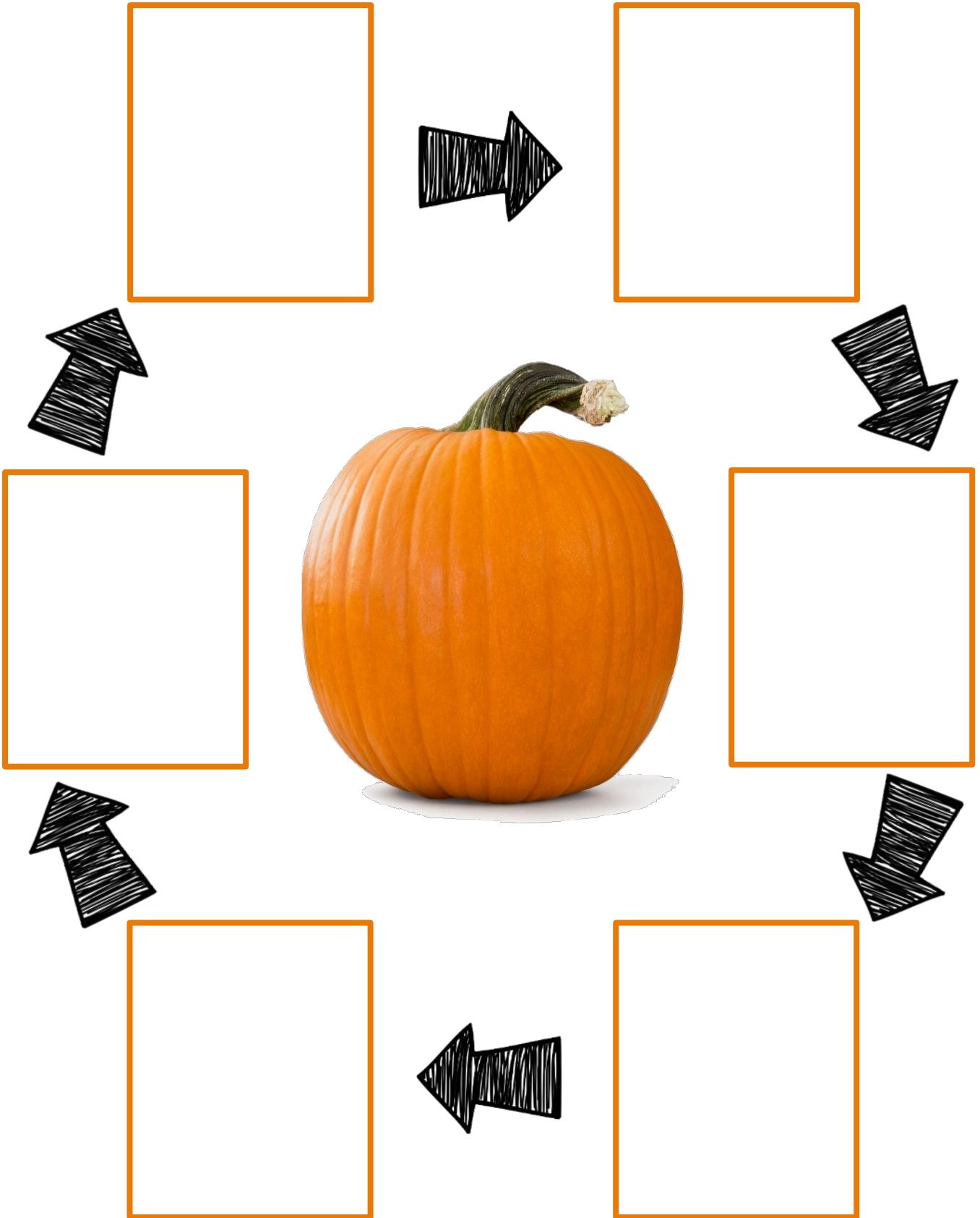
green pumpkin



pumpkin



LIFE CYCLE OF A PUMPKIN





seed



sprout



plant



flower



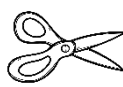
green pumpkin



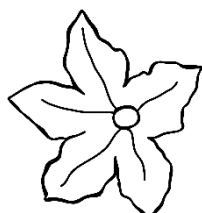
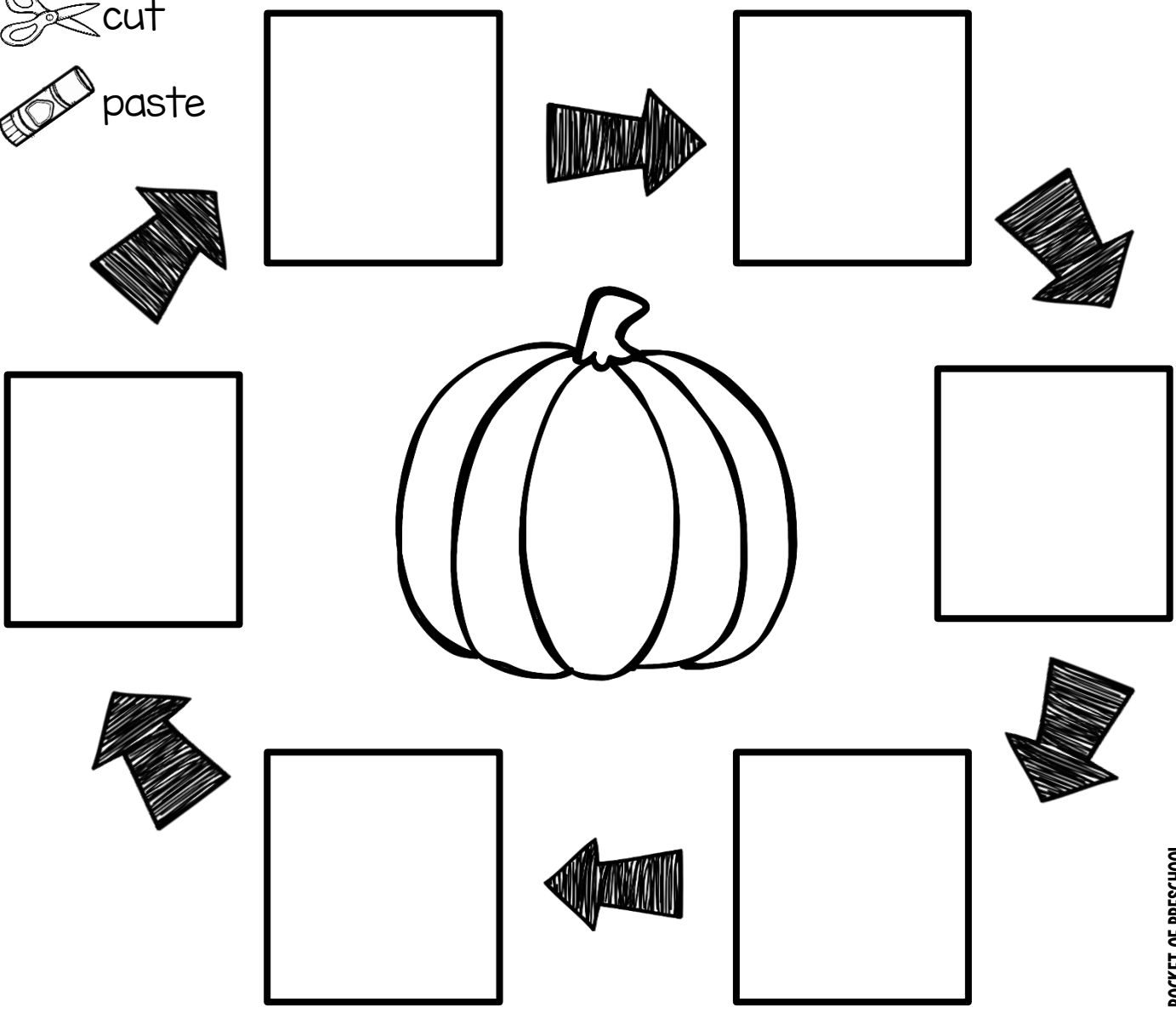
pumpkin

Name: _____

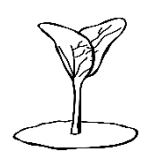
LIFE CYCLE OF A PUMPKIN

 cut

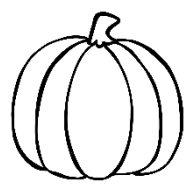
 paste



flower



sprout



pumpkin



seed



plant



green
pumpkin

PLANTING PUMPKIN SEEDS

After you open and investigate the pumpkin, keep the seeds and PLANT them! Students can observe the first stages of the life cycle of a pumpkin in the classroom.

Helpful Planting Tip:

- Soak the seeds in water (at room temperature) for at least two hours but not more than 24 hours to help with the germination process before you plant them.

Planting Options:

- Baggie - Place the seeds in a baggie with a damp paper towel.
- Pot/Container - Plant the seeds in a container or pot.
- Clear Plastic Cup - Plant the seed or seeds in a clear plastic cup. This way they can see the roots growing under the soil!

Post the growth chart in the center and measure the seeds as they grow and record the results.



PLANTING PUMPKIN SEEDS CONTINUED

PUMPKIN PLANTING WORKSHEET

Students can break up into small groups, pairs, or plant their own pumpkin seeds (in clear plastic cups) and follow up with the included planting worksheet.

GROWTH CHART

Once the seeds are planted, measure the sprout each day and record the results.

You could also place a growth chart in each students' journal. The ruler in the photo is a rainbow ruler made with a regular wooden ruler. For a tutorial [CLICK HERE](#).



PUMPKIN PLANT

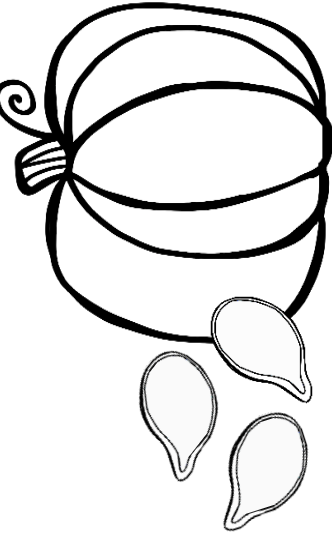
growth chart



DAY	HEIGHT 

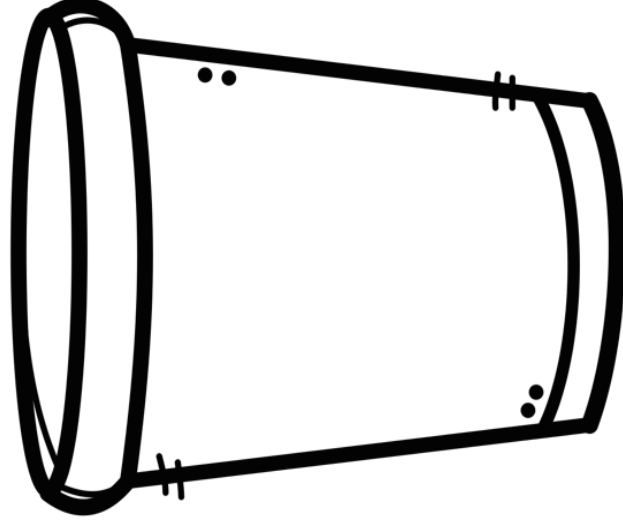
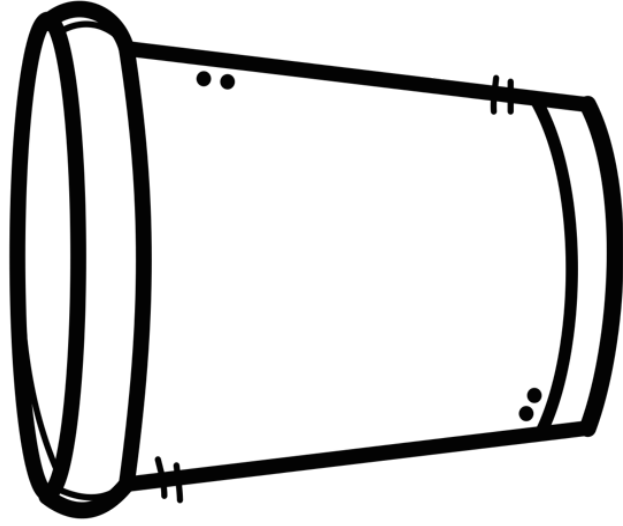
Name: _____

Planting Pumpkin Seeds



PREDICT what the pumpkin seeds
will grow into.

Draw what the seed looks like NOW.



PUMPKIN INVESTIGATIONS

As a class have a science talk and do a pumpkin investigation. Create the anchor chart using the included pieces.

Talk through each part and record their answers. It's a great time to use rich vocabulary and model measuring.



Does your pumpkin have a TON of seeds? Make lines with tape on a table. Students can place the seeds on the tape lines.

You could also print out the ten frames page (p.43) and students can place the seeds in the ten frames.

A visual makes it so much easier to count. ☺

PUMPKIN INVESTIGATIONS WORKSHEET

After you do one as a class, students can break up into small groups or pairs and do their own pumpkin investigations using the included worksheets.

Publicin

investigation

OUTSIDE

LOOKS LIKE



INSIDE

LOOKS LIKE



MEASURE

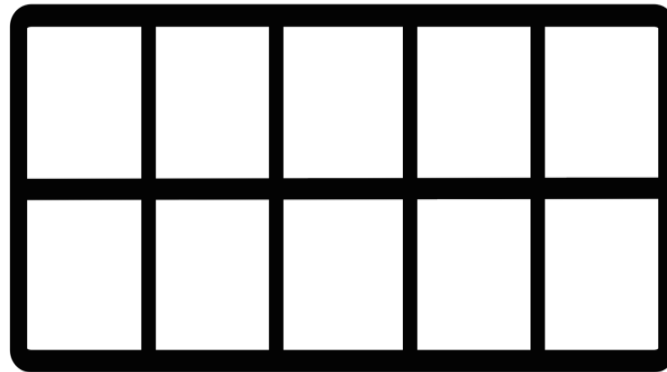
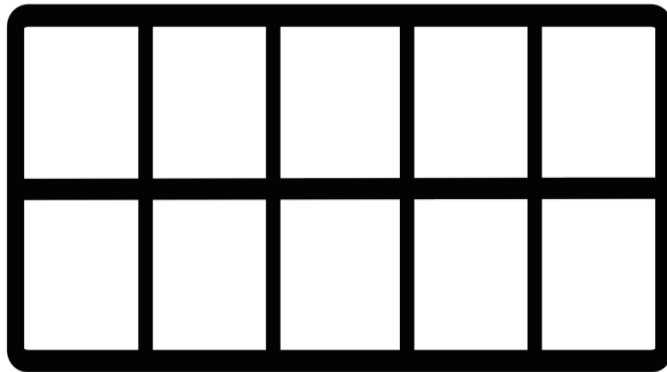
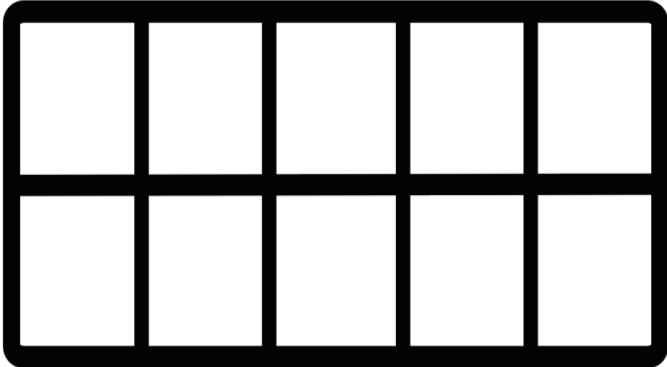
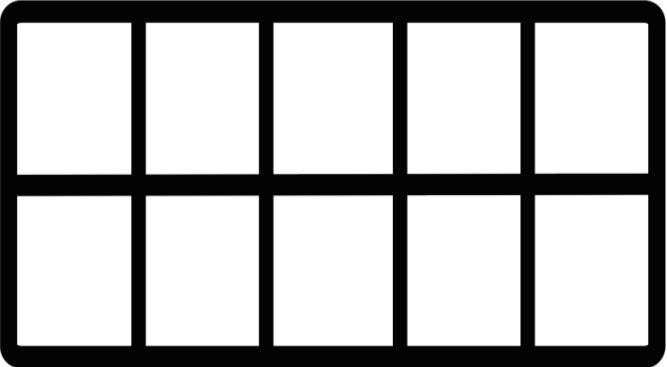
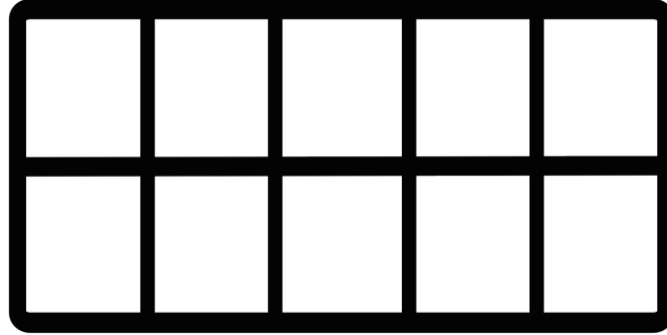
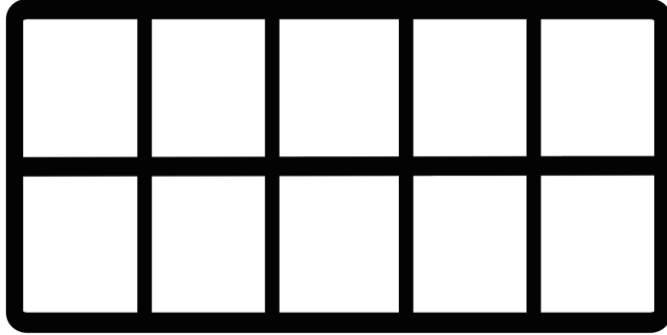
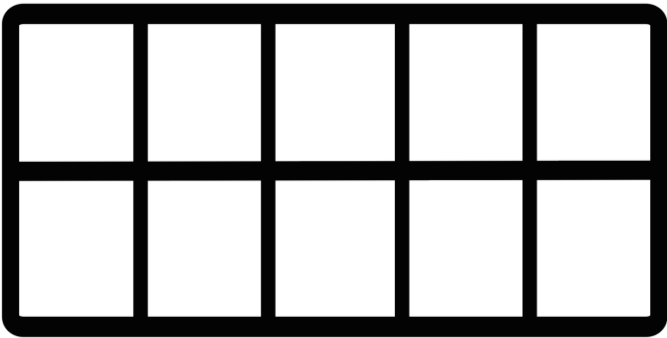
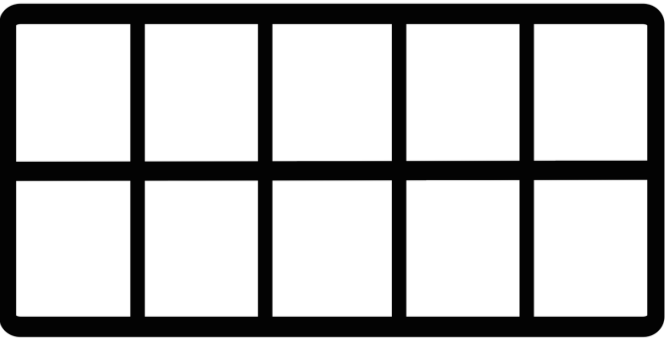
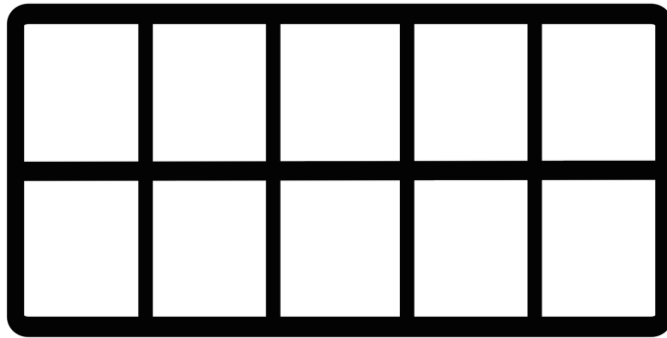
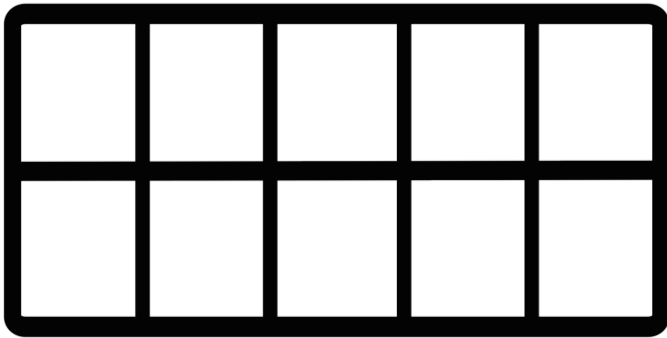
THE PUMPKIN



HOW MANY

SEEDS

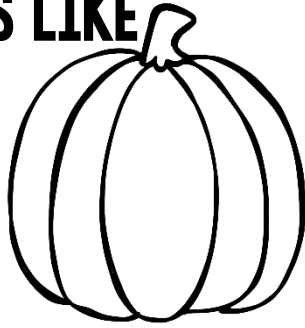




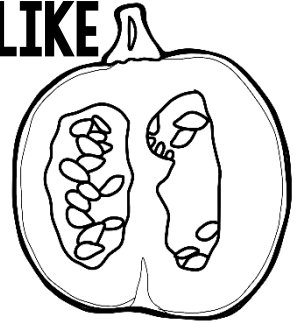
Name: _____

MY PUMPKIN Investigation

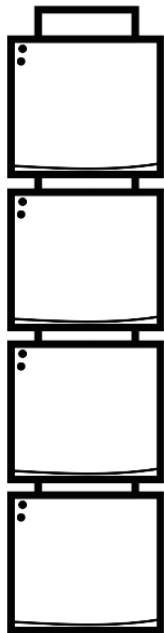
OUTSIDE LOOKS LIKE



INSIDE LOOKS LIKE

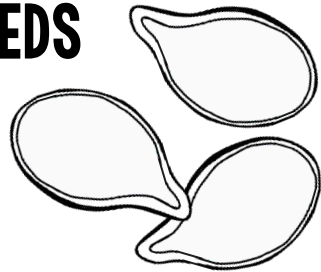


MEASURE IT



TALL _____

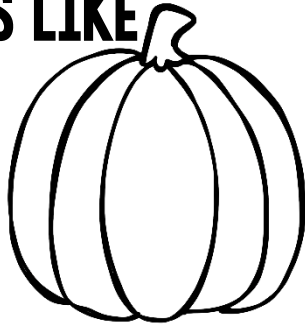
HOW MANY SEEDS



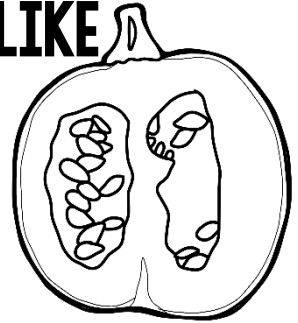
Name: _____

MY PUMPKIN Investigation

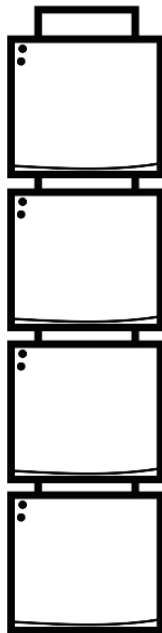
OUTSIDE LOOKS LIKE



INSIDE LOOKS LIKE



MEASURE IT



TALL _____

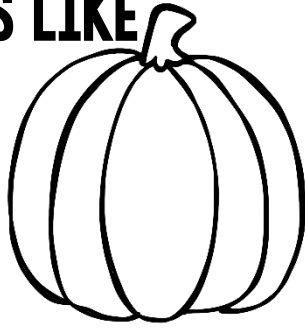
HOW MANY SEEDS



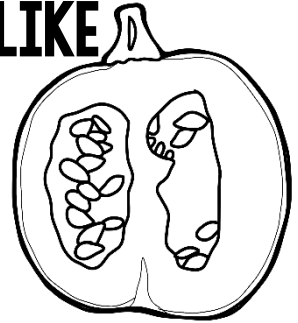
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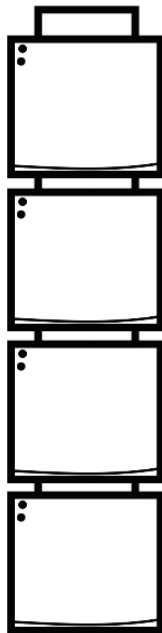
OUTSIDE LOOKS LIKE



INSIDE LOOKS LIKE

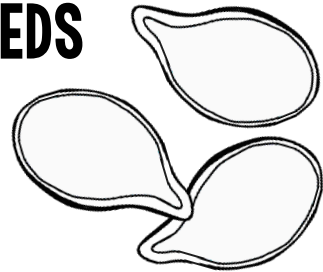


MEASURE IT



TALL _____

HOW MANY SEEDS



BOOK:

Use the book many ways.

- Print the book and read it during circle time
- Print the book and place it in the science center
- Print the book smaller if you have a small science center (see printing directions on page 2)



All About Pumpkins!



There are
over 45
different
kinds of
pumpkins.



Pumpkins are a fruit that
grows on a vine.

Pumpkins
can be
bumpy or
smooth.



Pumpkins are part of the
gourd family. They can be red,
orange, yellow, white, or tan.

Seeds need
water,
sunlight,
and soil to
grow.



Pumpkins grow from pumpkin seeds. After a seed is planted a sprout will pop out of the soil.³



flower

Soon long vines will grow across
the ground and yellow flowers
will bloom.

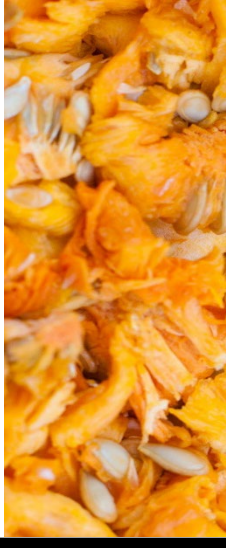


The vines
carry water
and
nutrients to
the fruit to
help it grow.

When the flowers fall off tiny
little green pumpkins will grow.
They will grow bigger every day.



Inside a
pumpkin
are white
oval shaped
seeds.



The pumpkin will change colors
as it gets ripe. Then it's ready
to be picked.

Many
people eat
the
pumpkin
seeds and
put them
on salads.



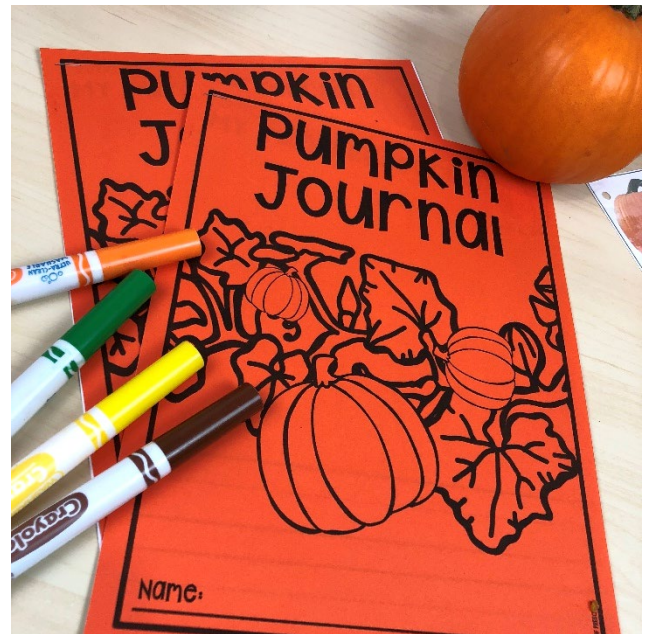
Pumpkins can be used to make
breads, soups, bakery treats,
and even coffee.

JOURNAL & DISCOVERY PAGES

Discovery pages and journals are an easy way to add literacy into the science center and to get students communicating their thoughts and ideas! There are many ways to use the discovery pages!

Options:

- Make a journal for each child
- Make a class journal
- Post students' completed discovery pages on the wall
- Use for reflection pages after experiments
- Just place on the science table or shelf



Pumpkin Journal

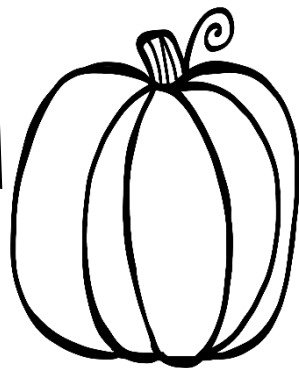


Name: _____

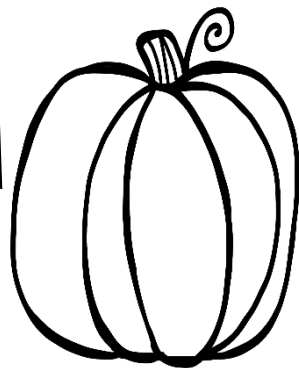
pumpkin Journal



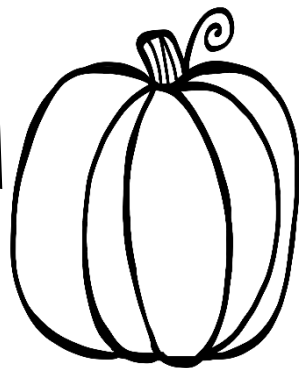
Name: _____
MY pumpkin Journal



Name: _____
MY pumpkin Journal



Name: _____
MY pumpkin Journal



Four sets of horizontal lines for writing, each consisting of a solid top line, a dashed middle line, and a solid bottom line.

Name: _____
MY PUMPKIN DISCOVERIES



Name: _____
MY PUMPKIN Discoveries



Name: _____
MY PUMPKIN Discoveries

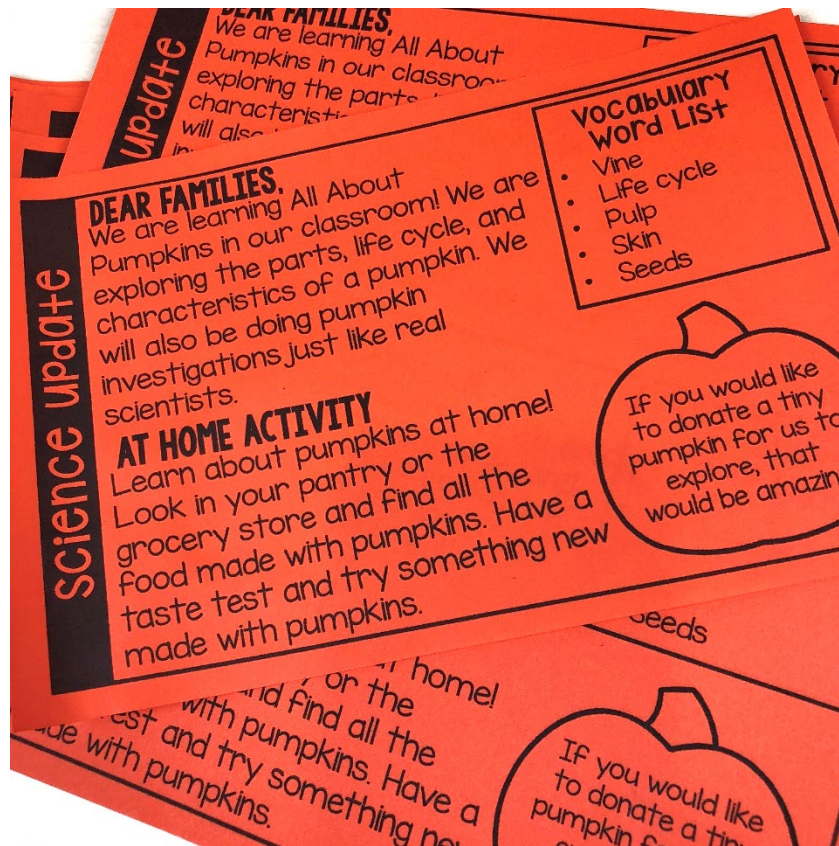


Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line.

NOTE HOME:

Send home the parent note to inform families of what exciting science things their child is learning about at school. It's a great way to strengthen the home school connection.

The note includes a snippet about the science topic, a few vocabulary words, and an activity they can do at home to continue the learning!



DEAR FAMILIES,

We are learning All About Pumpkins in our classroom! We are exploring the parts, life cycle, and characteristics of a pumpkin. We will also be doing pumpkin investigations just like real scientists.

AT HOME ACTIVITY

Learn about pumpkins at home! Look in your pantry or the grocery store and find all the food made with pumpkins. Have a taste test and try something new made with pumpkins.

Vocabulary Word List

- Vine
- Life cycle
- Pulp
- Skin
- Seeds



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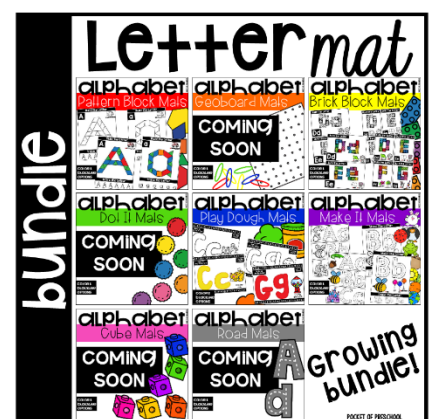
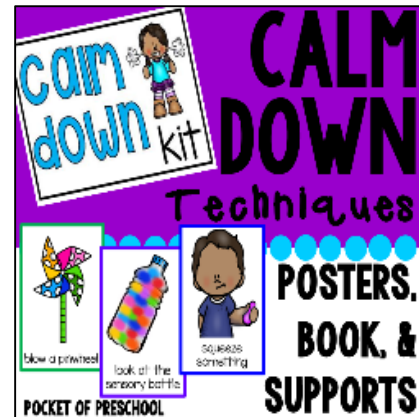
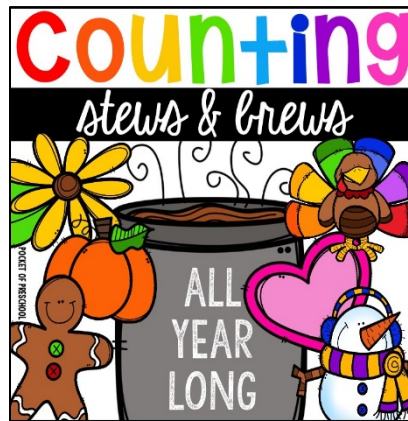
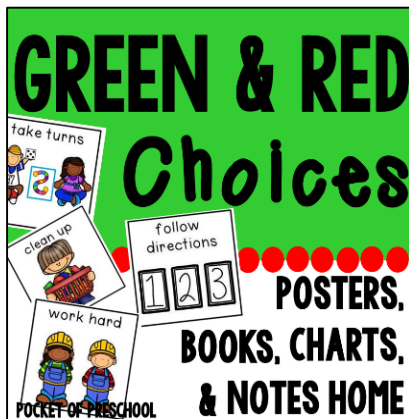
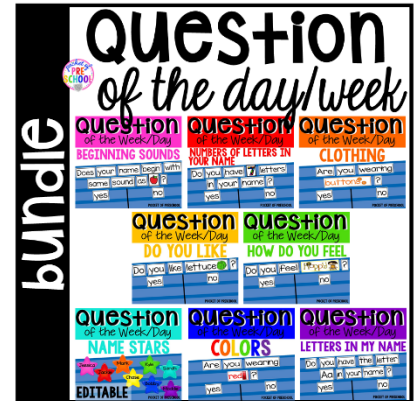
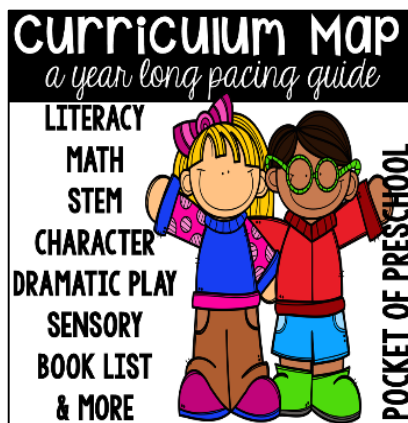
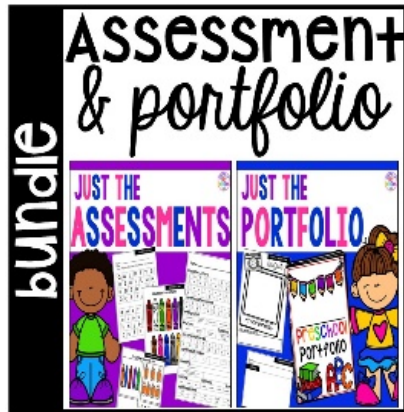
- Vine
- Life cycle
- Pulp
- Skin
- Seeds





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