

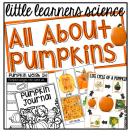
Little Learners Science curriculum

Click on the cover to check it out!













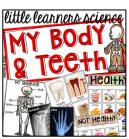


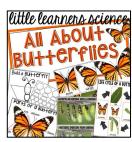






























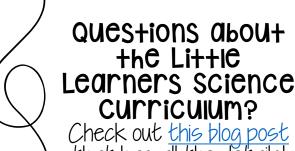








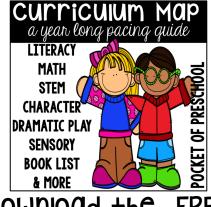




that has all the details!



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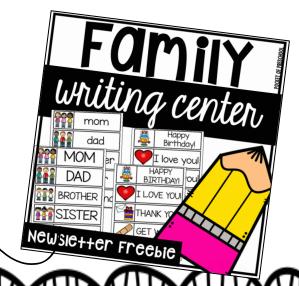


Download the

CUrriculum Map to see how the _ittle Learners Science Curriculum can be taught throughout the school year with various learning themes and seasons or as needed.

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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).

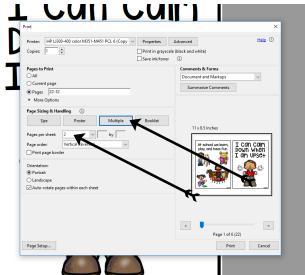
Print SMALLER Directions: To print it smaller in size

- 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

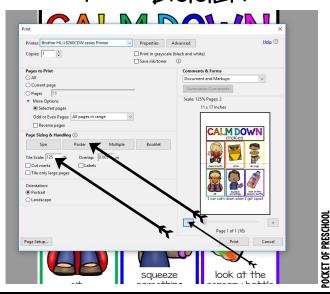
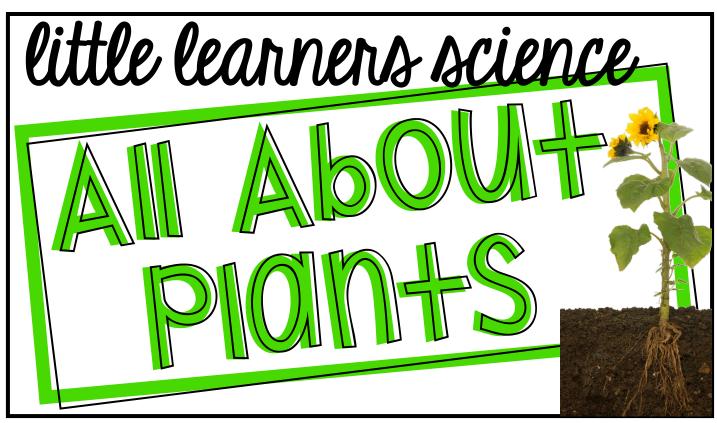


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LABELS

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 and spine use pages 7 and 8.

Studie Piants



Binder Spine

little learners SCIENCE

science instruction teacher pages Instruction Strategies

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: Read a science book during circle time, then do one of the connecting activities found in this unit (see suggested reading list for amazing books or use the included read aloud).

SCIENCE TALKS: During circle time, engage students in a "science talk" to:

- introduce the new science study and vocabulary words
- share students' ideas, misconceptions, and findings
 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, allow him or her to

point to the various parts of the investigation as you share it for them with the class. As students feel safe and build confidence within the group setting, the more likely they will be to share their investigations with the class. This could be during center time or if you break up into trios/pairs for science investigations.

FOCUS ON OBSERVING, INVESTIGATING, AND EXPERIMENTING RATHER THAN THE "RIGHT ANSWER" OR "RIGHT WAY". THE PROCESS IS MORE IMPORTANT THAN THE PRODUCT.

Science instruction Teacher Pages

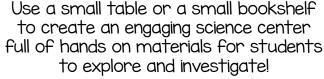
How to set up the science table or shelf







- Magnifying glasses, cubes, scale
- Investigations and activities included in this pack
- Vocabulary cards
- Anchor charts
- Books (see book list)



(this is an IKEA Lack Table)





BOOK LISH

A Seed is Sleepy
 by: Dianna Hutts Aston

Seed to Plant

by: Kristin Rattini

Leaves

by: Viaya Khisty Bodach Other books in the plant parts series: Stems, Seeds, Roots, Fruits, Flowers

by: Viaya Khisty Bodach

From Seed to Plant

by: Gail Gibbions

Up, Down, and Around
 by: Katherine Ayres (Fiction)

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



science instruction Teacher pages Included Activities

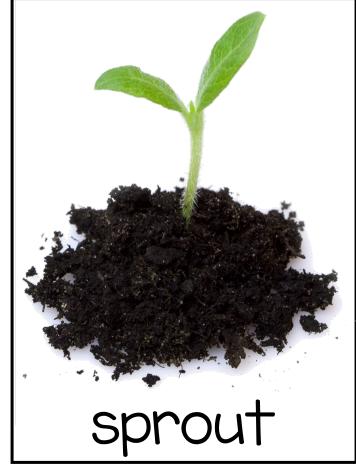
VOCABULARY CARDS

Print the cards and place in the center. Options:

- Create an anchor chart with the cards and header "All About Plants" found on page 8.
 - One idea is to staple a ribbon to the wall then clip the cards to it with small clothespins. This is great for easy accessibility so you can easily take down the cards to use during science talks, circle time, etc.
- Put the cards near the corresponding objects on the science table/shelf.
- Place the cards on a metal ring.

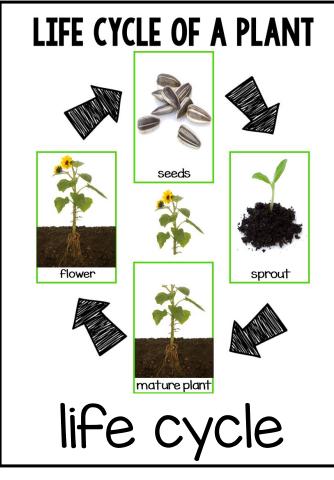






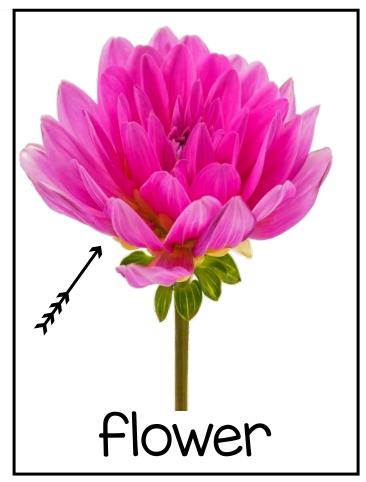


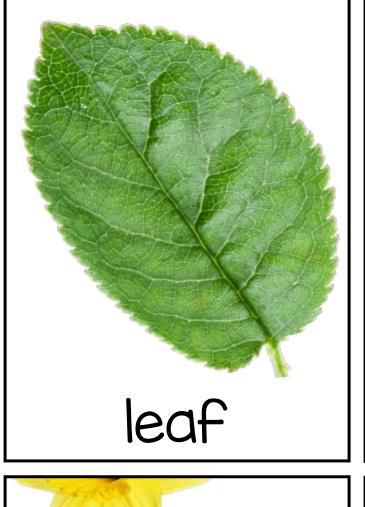


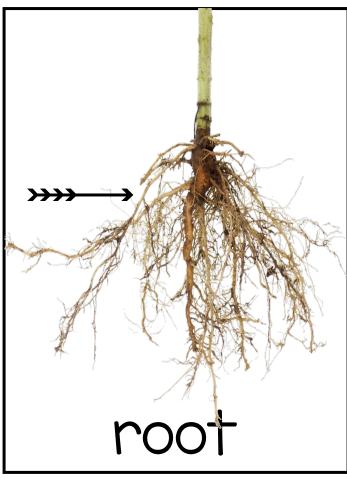


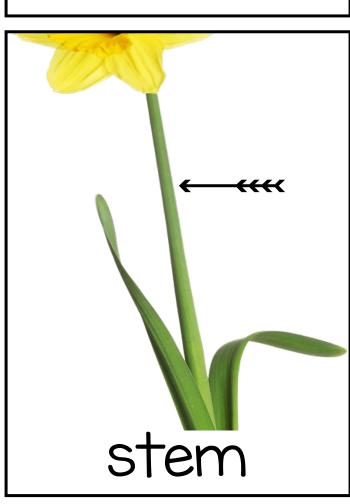






















science instruction teacher pages Included activities

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:

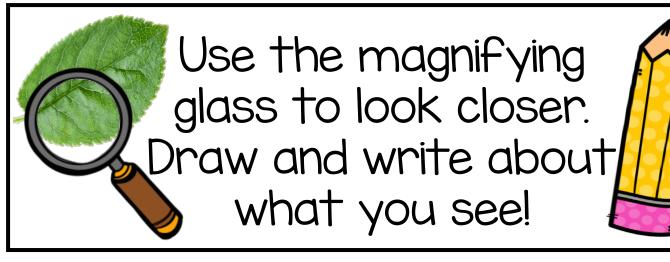
- Place the mini science prompts by the corresponding tool.
- Activity Charts
 - Laminate and place in the center to use as a science mat with appropriate tools.
 - Print and place in a dry erase pocket and use as a science activity chart with the appropriate tools.
 - Print and use as a recording page.



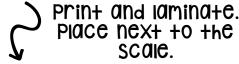


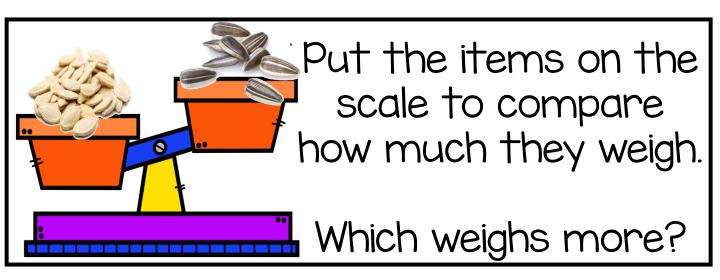
Items to Investigate:

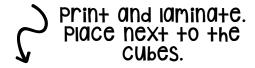
- Real or fake plants
- Real or fake flower stems
- Real or fake parts of plants
 - (stems, leaves, flowers, petals, etc.)
- Small potted plans
- Seeds
- Real fruits
- Real vegetables

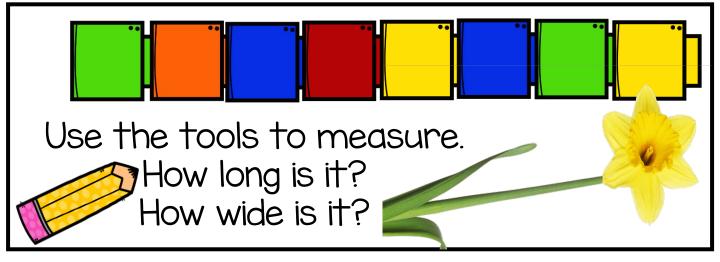


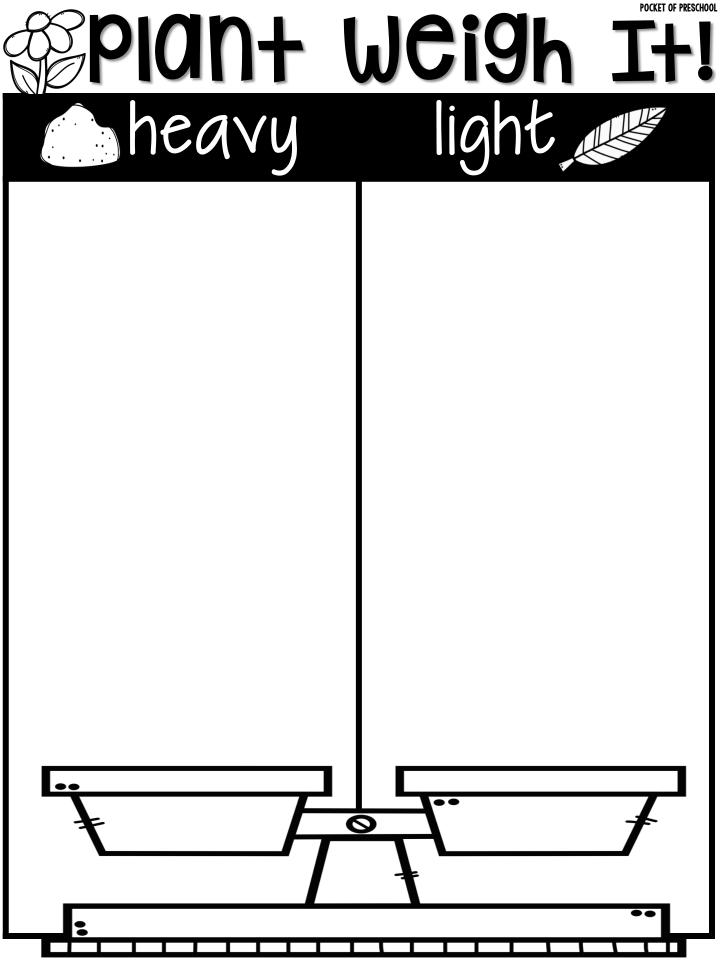
Print and laminate.
Place next to the magnifying glasses.

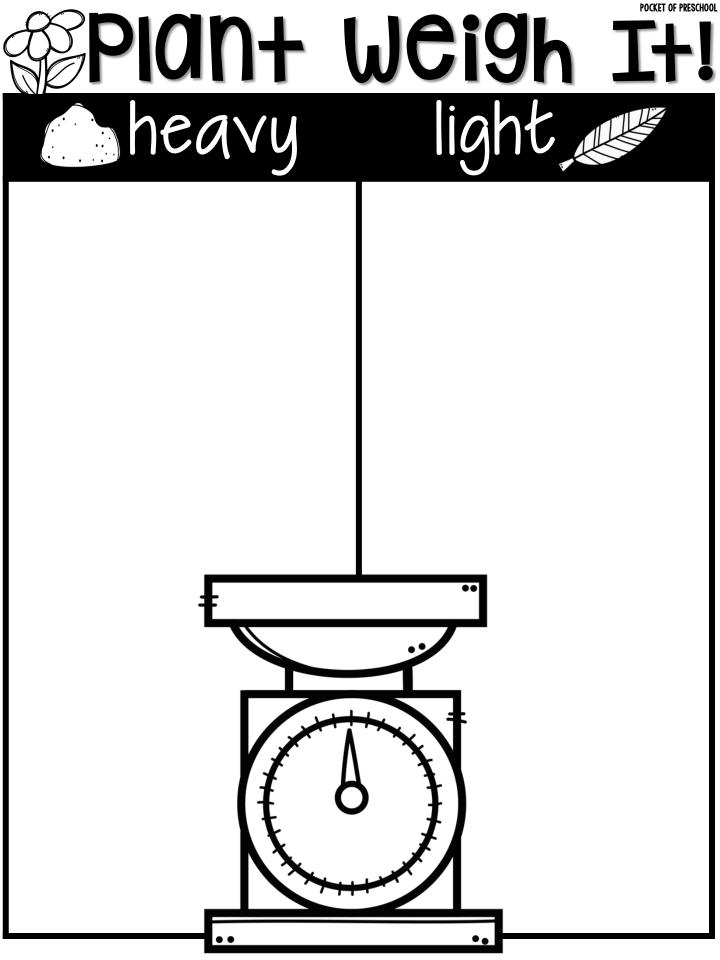


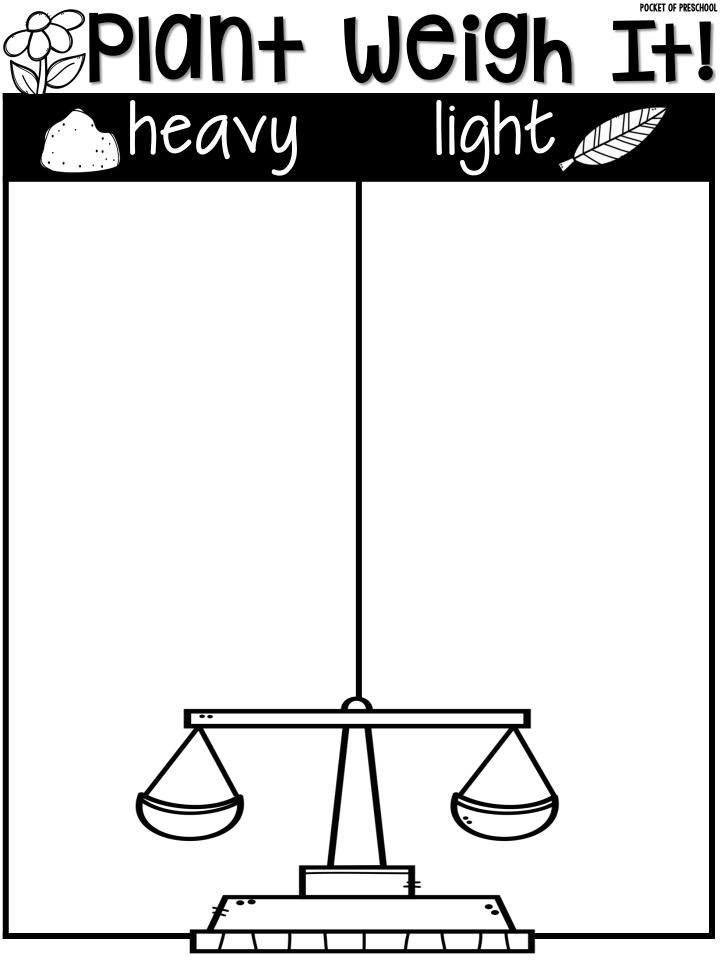


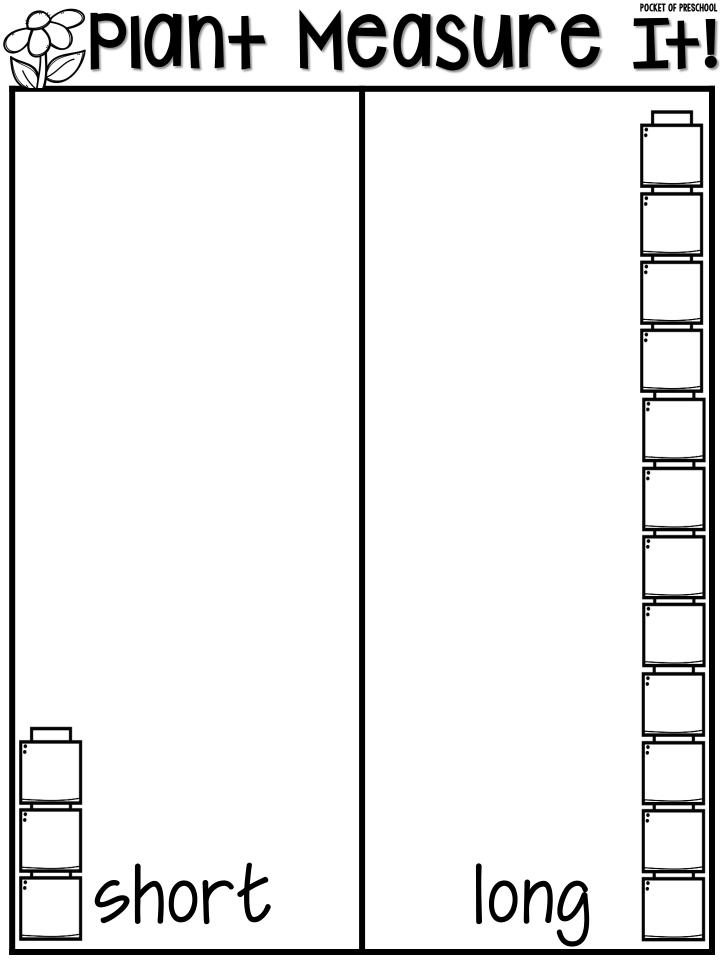


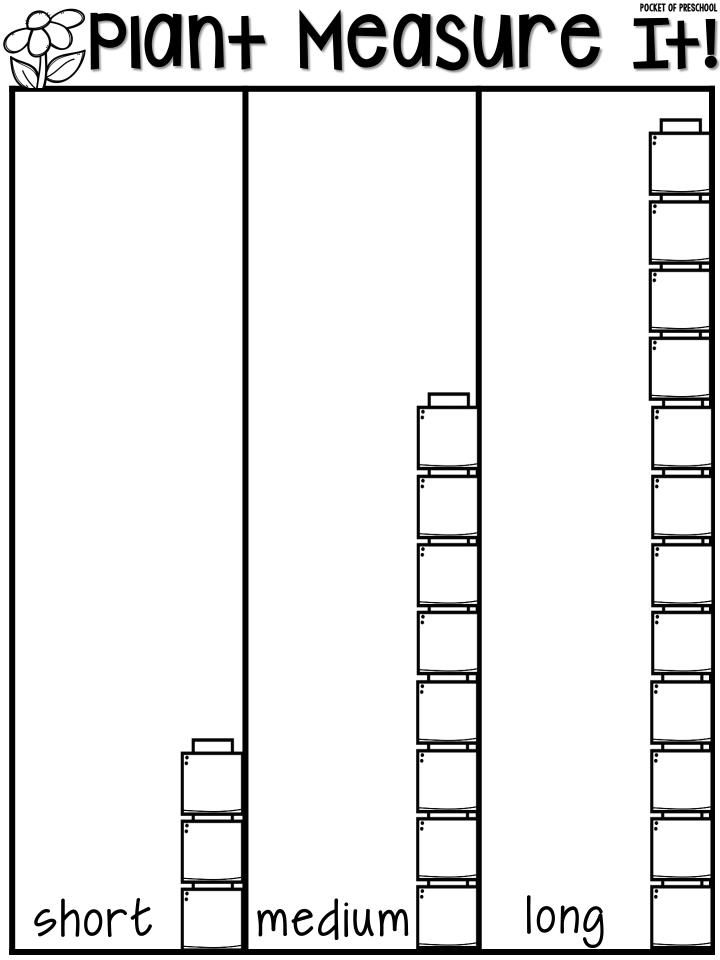


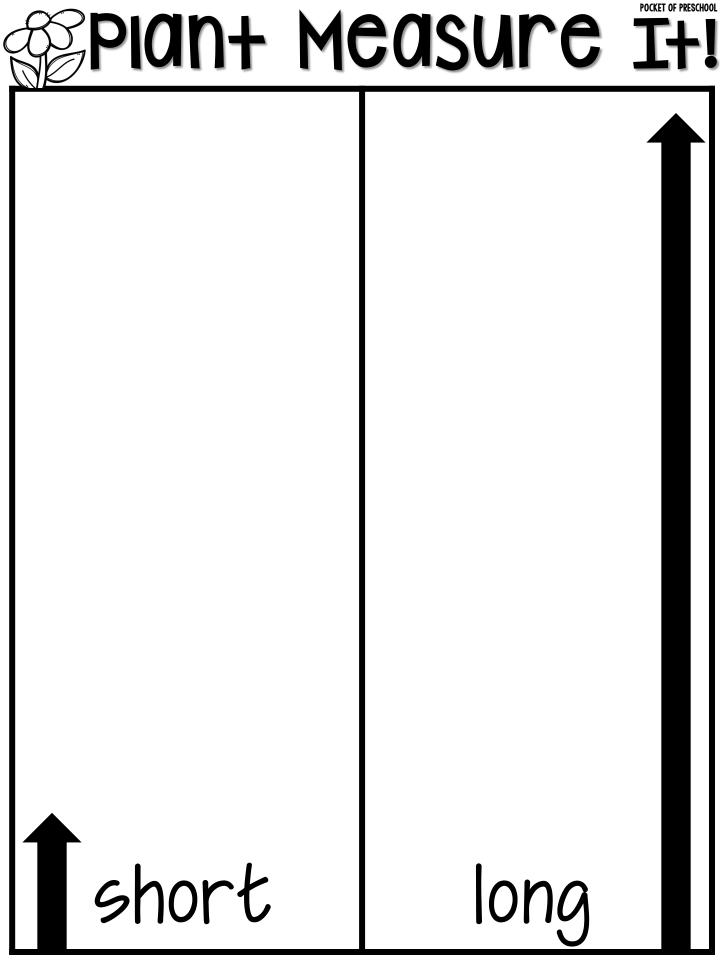


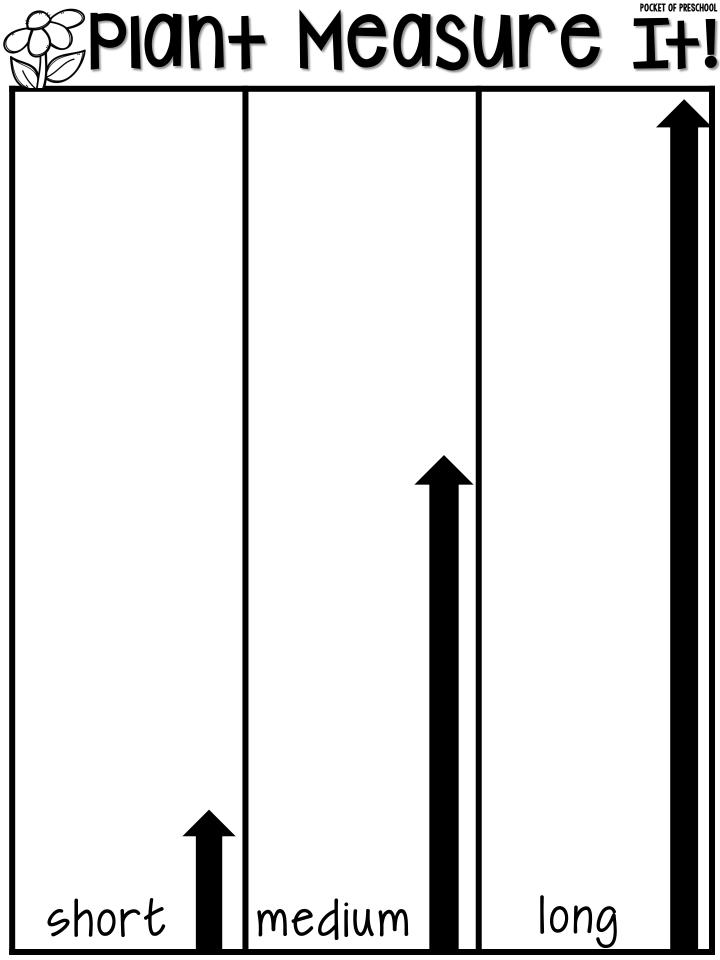


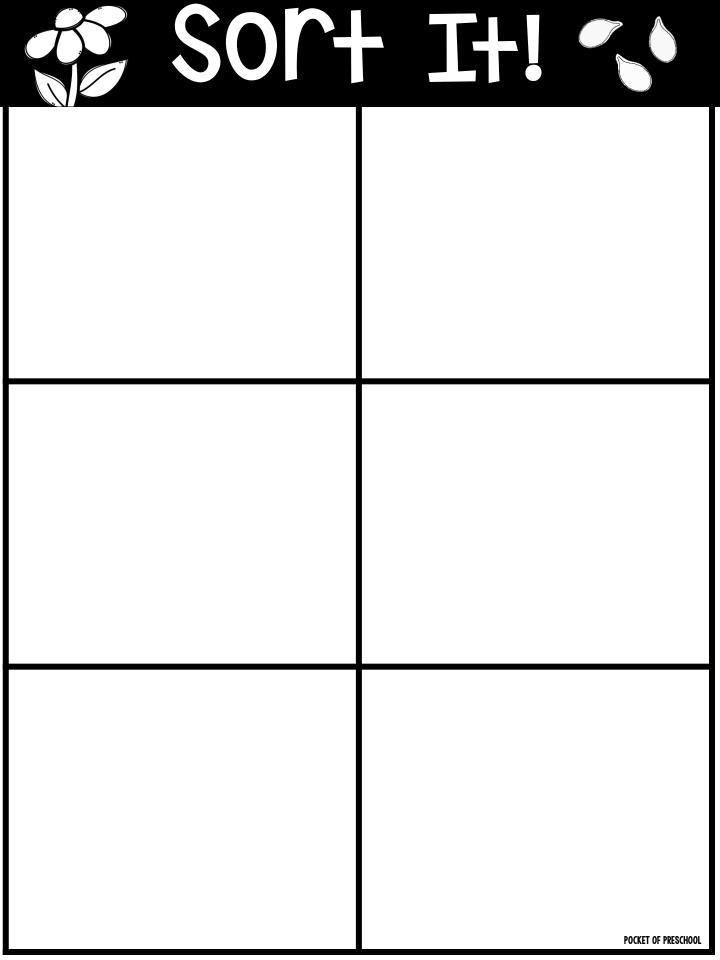


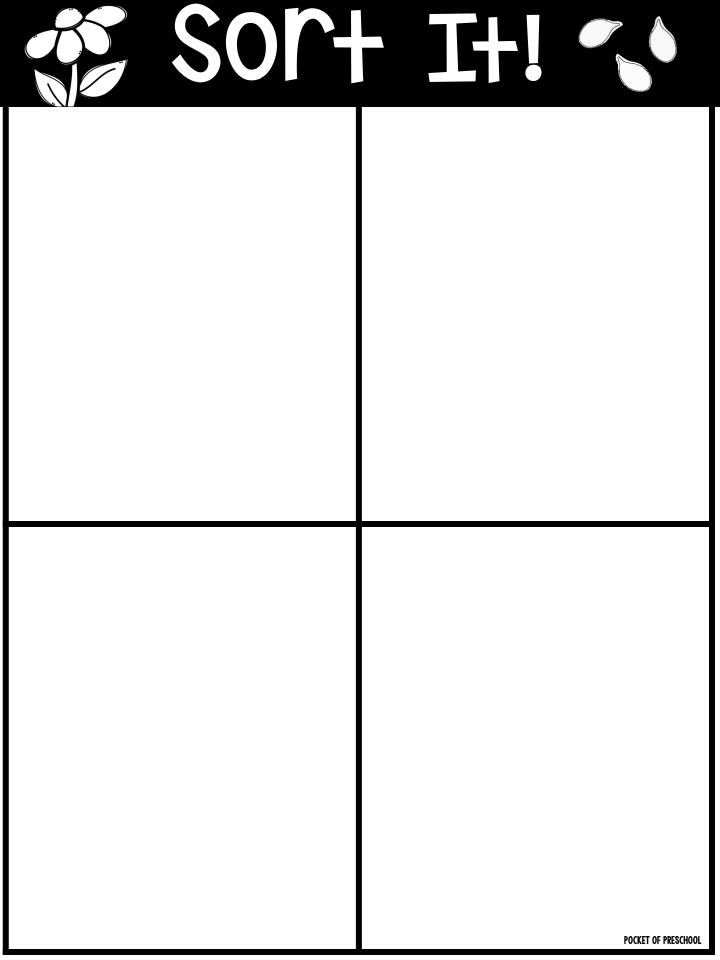


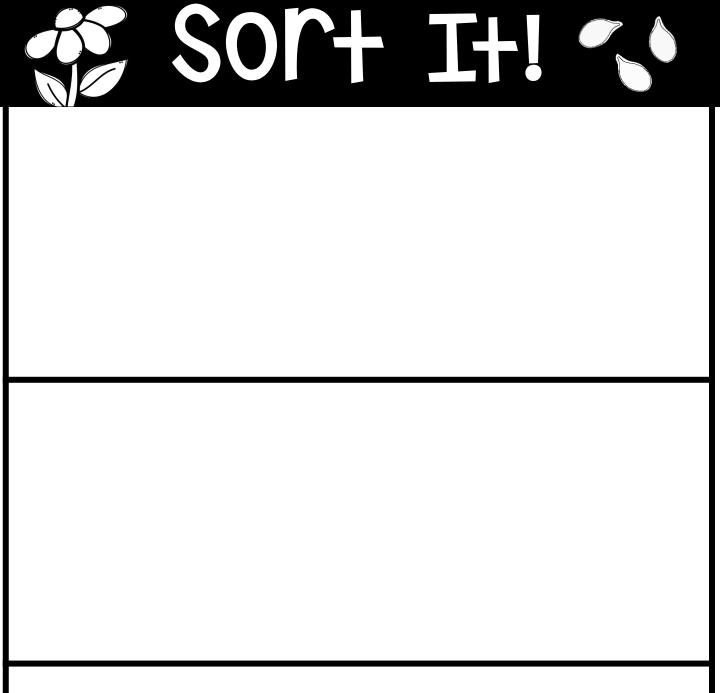






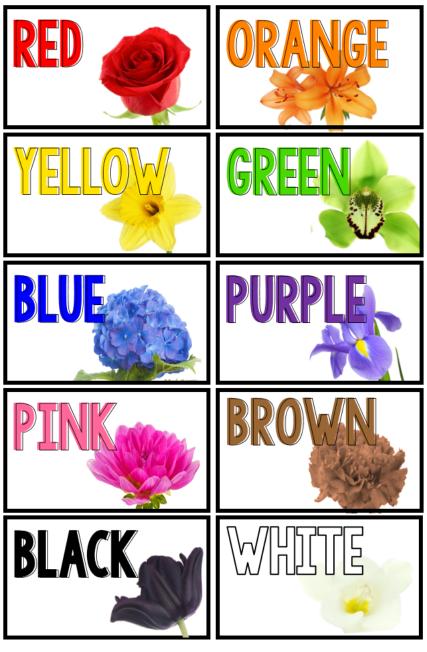


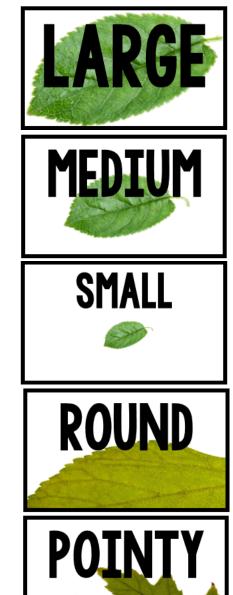




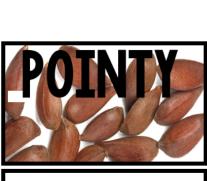




















science instruction teacher pages Included activities

PLANT SORT

As a class have a science talk all about plants. Create an anchor chart using the included pieces.

Talk through each section and record student responses. It's a great time to use rich vocabulary and model sorting and measuring.

There are so many things you can sort for a plant unit! Here are some ideas of what to sort!

- Seeds
- Leaves
- Vegetables

- Flowers with the stem attached
- Fruits



SORTING WORKSHEET

After you complete the anchor chart as a class, students can break up into small groups or pairs to work on their own investigations using the included worksheet.

Name: FIOWER Sort paste small medium large

Name: cut seed Gort paste small medium large











SMALL

















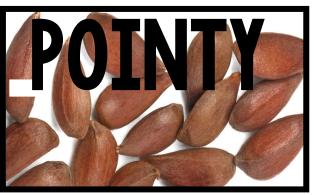
















SMALL



USE THE COLOR SORTING CARDS TO SORT THE SEEDS BY COLOR

PARTS OF A PLANT AND WHAT PLANTS NEED ANCHOR CHART:

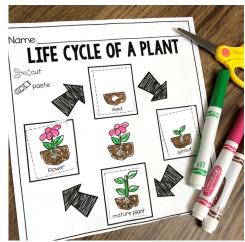
Create an anchor chart with the whole class during circle time. This can be done after a read aloud, after an investigation, or during a science talk.

Create the chart and label the parts of a flower using the word cards. Option to then have students describe each, label, and record their responses on the anchor chart.

At the bottom of the chart, list what a plant needs

using the included chart pieces.



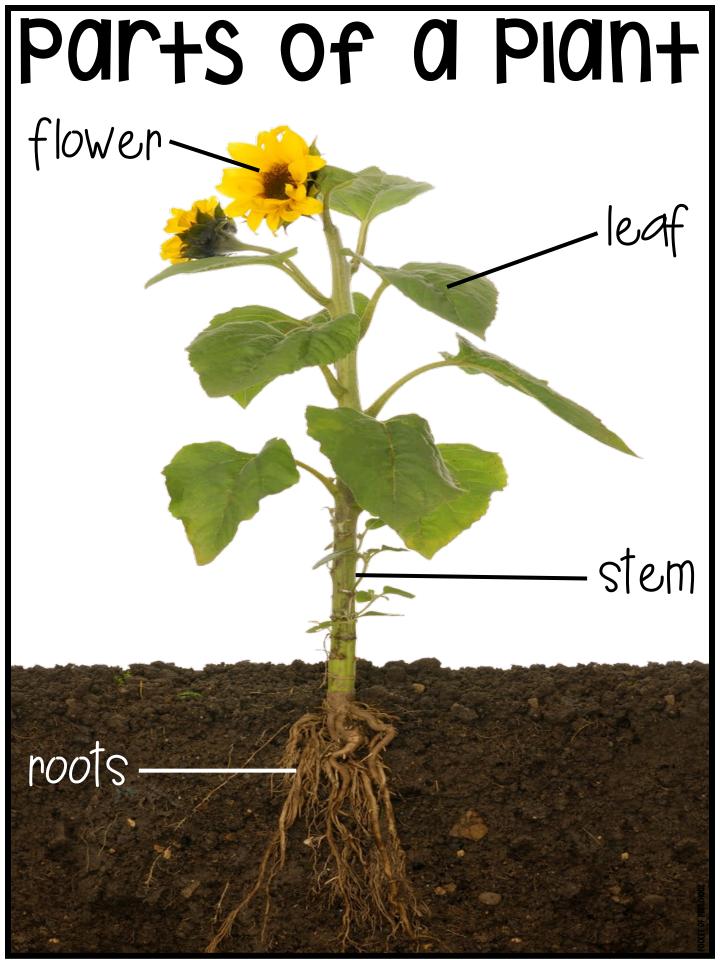




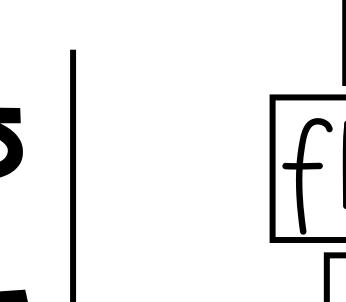
MINI ANCHOR CHART & WORKSHEET:

Print and place in the center.

Optional student recording pages included.



PARTS OF A PLANT ANCHOR CHART PIECES





flower

roots



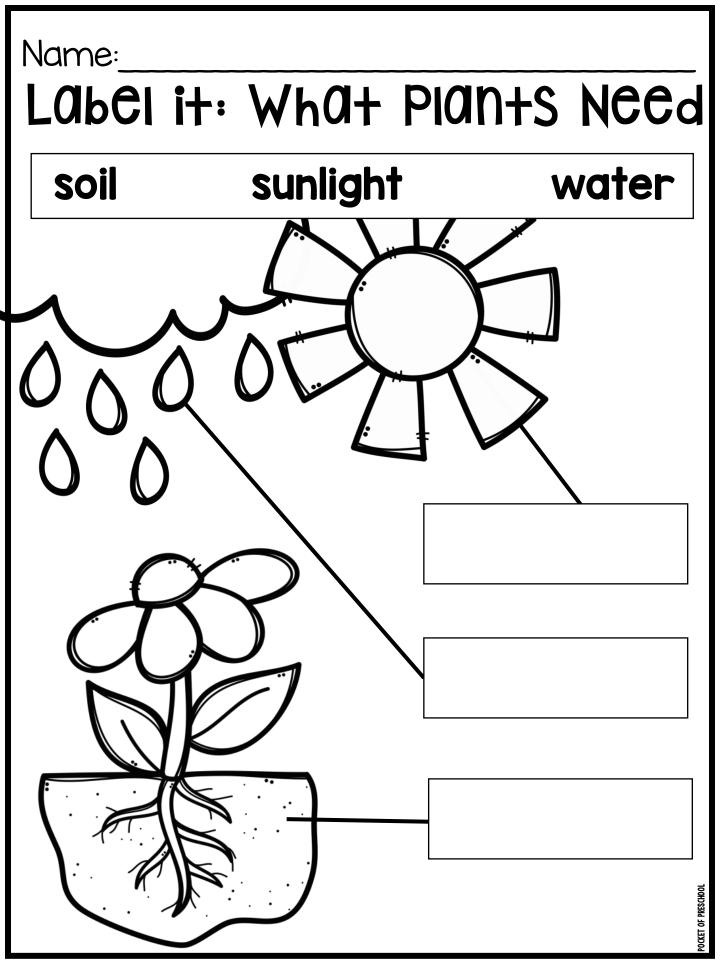
Plants Need







Name:_ Label I+! Par+s of a Plan+ flower roots stem leaf



PLANT LABEL IT ACTIVITY:

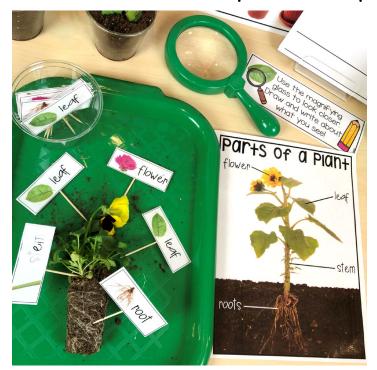
After the class has completed the Parts of a Plant anchor chart, place the plant label it activity in the center for students to complete independently. This also gives students the opportunity to touch, feel, and look closely at all the parts of a real plant.

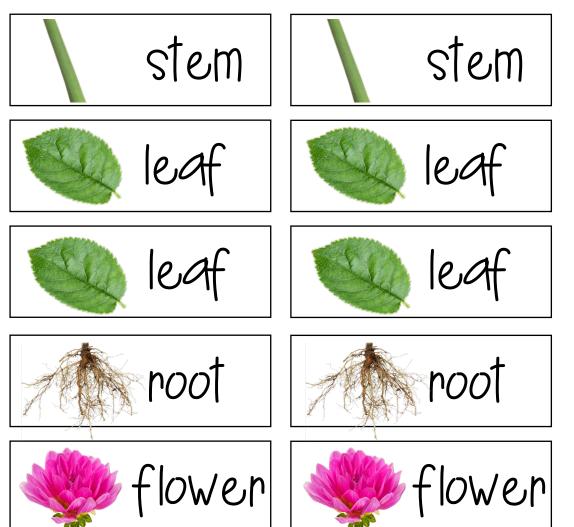
PREP

- Print and laminate the parts of a plant flags. Tape or glue to toothpicks.
- Place a plant with the root attached on a tray.
- Plant Options: pull a weed from the playground or landscaping. Purchase a pack of small plants to use.

ACTIVITY

- Students label the parts of the plant using the plant part flags.
- These parts of a plant tags can also be used on the sorting boards so student can sorts the parts of a plant.





stem

stem



Deaf













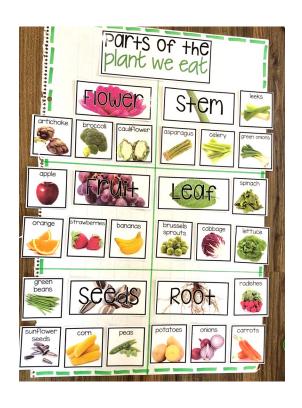
PARTS OF A PLANT WE EAT ANCHOR CHART

Create this Parts of a Plant We Eat anchor chart to sort the vegetables by what part of the plant each is.

There are 3 or 4 items than can go under each plant part. After you place those under the category, write students' ideas under each item or have students cut out magazine or grocery store ads to place on the chart as well (optional).

SORTING MINI CHARTS OR FILE FOLDER SORT

Laminate the pieces. Glue the header to a piece of paper or file folder. Attach the object cards with Velcro for students to sort

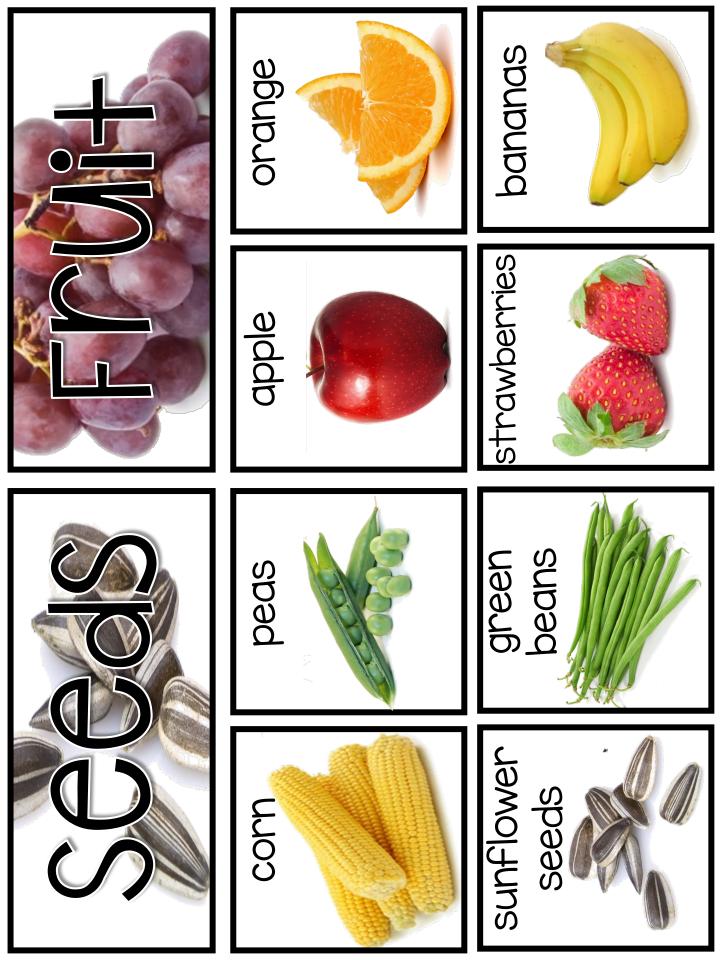


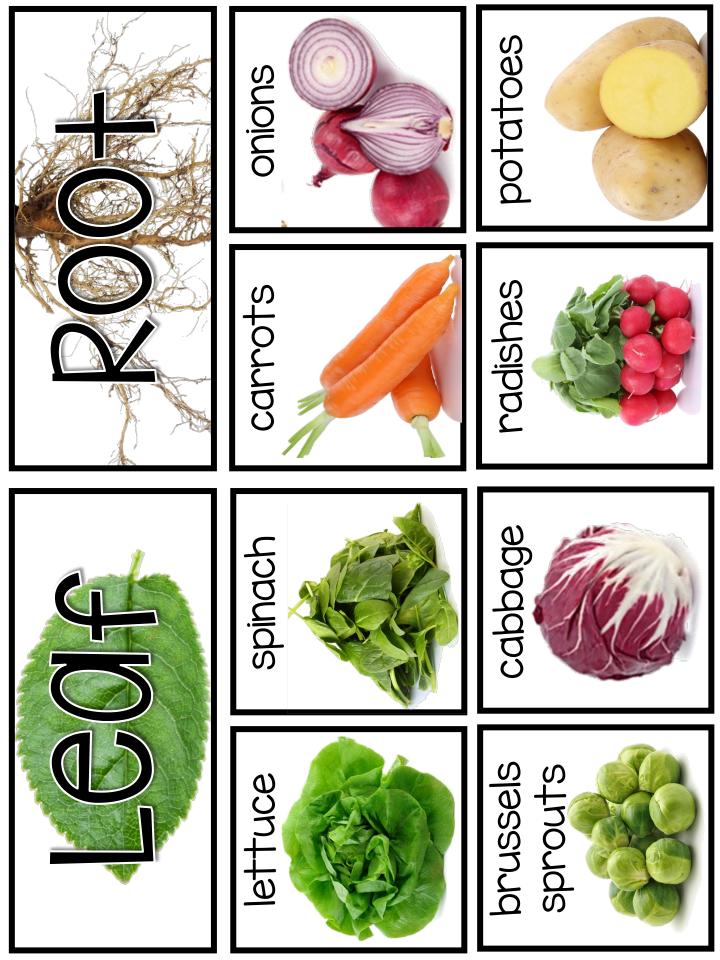


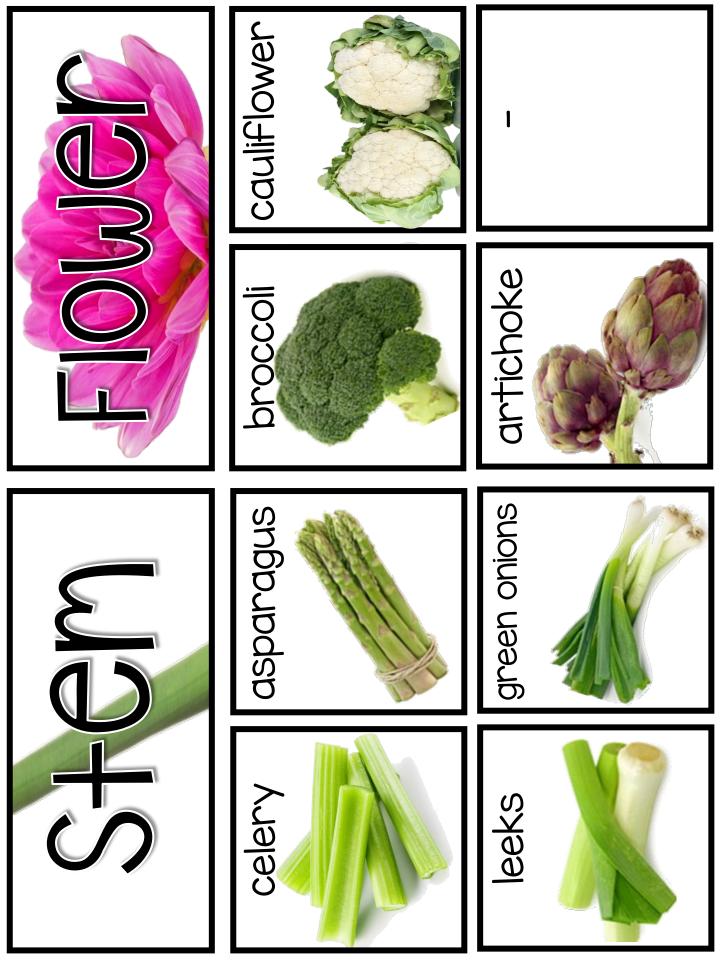
You can also place real vegetables on the science table with a science mat to give students the opportunity to measure or sort real vegetables.

Plant we eat

ANCHOR CHART HEADER







Parts of a plant we eat

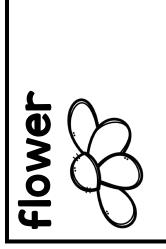
Draw pictures of vegetables to show what parts of the plant we eatl

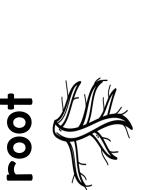


seeds Name:









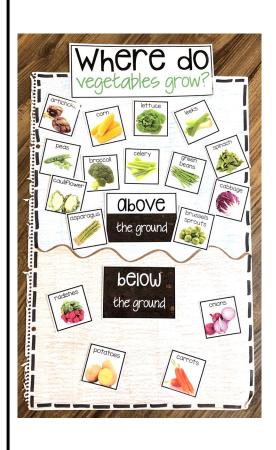
WHERE DO VEGETABLES GROW ANCHOR CHART

Create this Where Do Vegetables Grow? anchor chart to sort the vegetables by where they grow. This is a fabulous follow up activity for the book Tops and Bottoms.

Use the vegetable cards from pages 46-48 along with the anchor chart pieces on the next page to create the chart.

SORTING CHARTS OR FILE FOLDER SORT

Laminate the pieces. Glue the header to pieces of paper or a file folder. Students place each vegetable either above or below the ground on the chart.





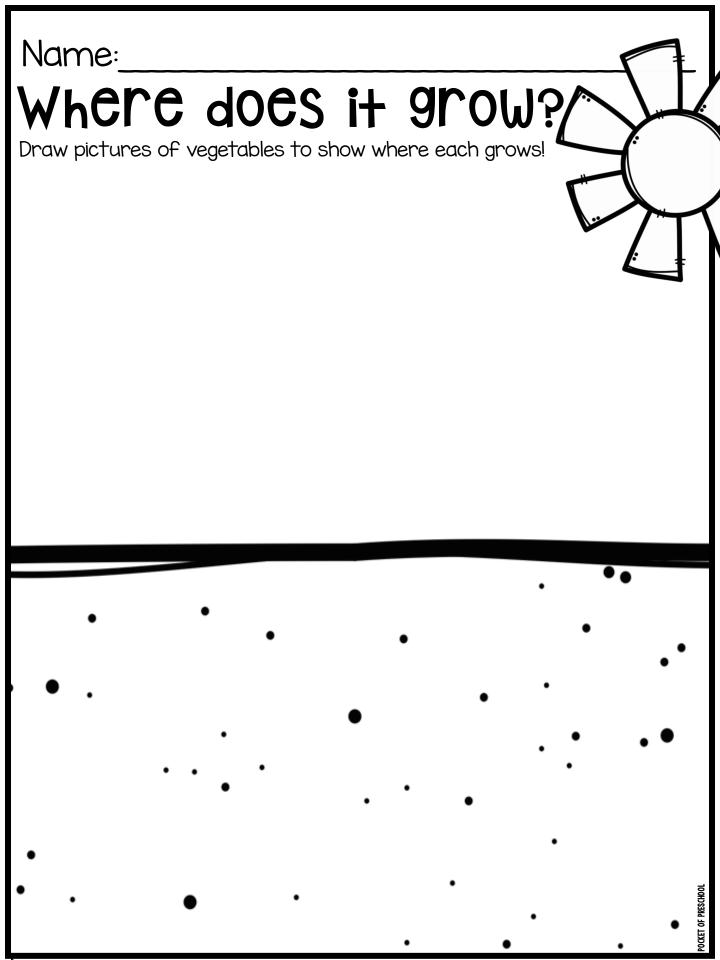
You can also place real vegetables on the science table with a science mat to give students the opportunity to measure or sort real vegetables.

5

<u>db</u>0

the ground

beglow the grownd



LIFE CYCLE OF A PLANT

Print the cards and place in the center.

Options:

- Create an anchor chart with the cards and included header "Life Cycle of a Plant"
- 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 POSTERS & WORKSHEET

Print the posters and place them in the center. Make it an interactive chart by having students match the cards on the poster. Use Velcro to attach the pieces to the poster.





FLOWER

LIFE CYCLE OF

APLANT

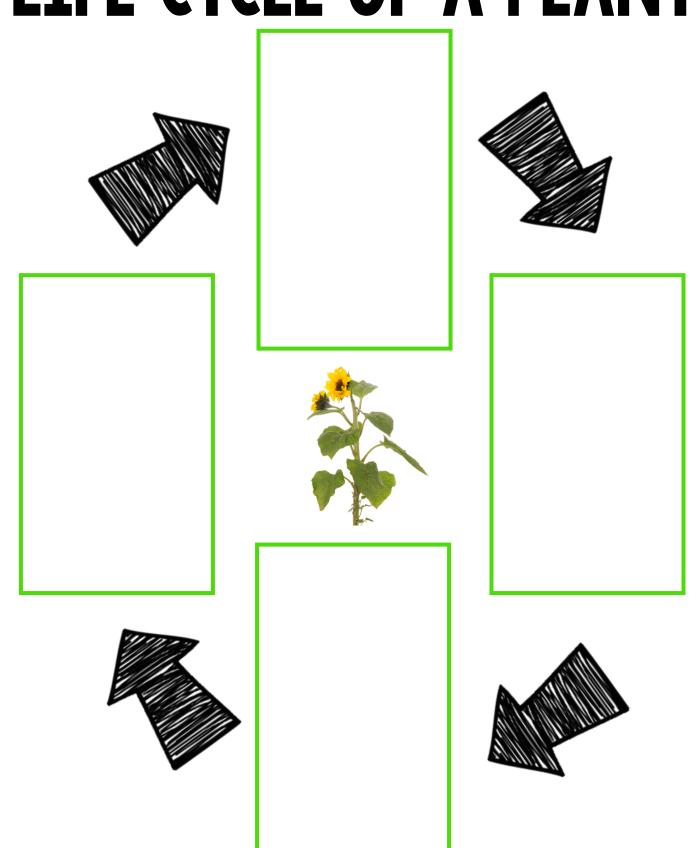








LIFE CYCLE OF A PLANT



LIFE CYCLE OF A PLANT









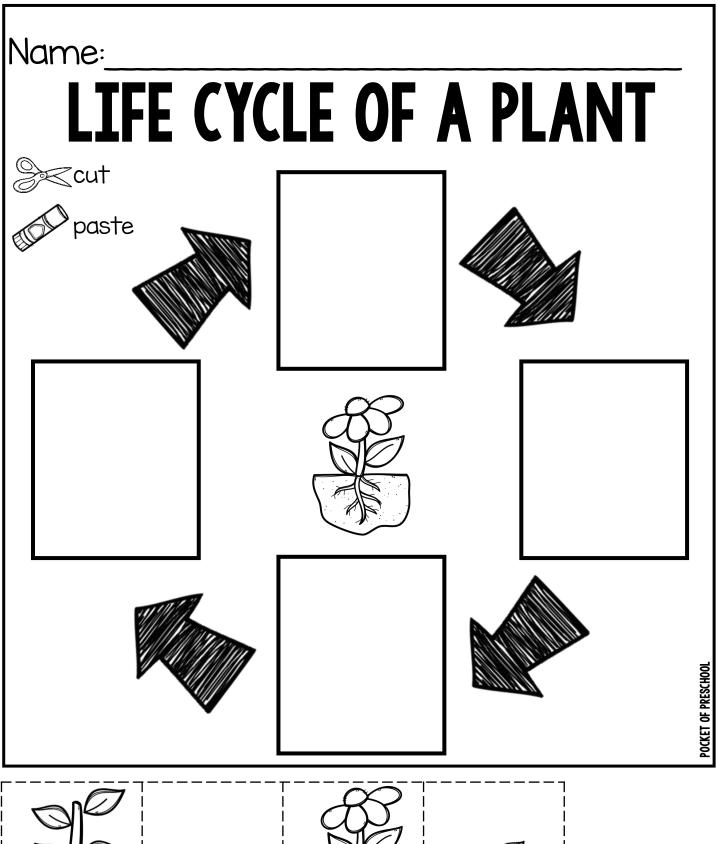




















PLANTING SEEDS

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 plant in the classroom

HELPFUL SEED PLANTING TIPS

- Soak the seeds in water (at room temperature) for at least two hours but not more than 12 hours to help with the germination process before you plant them.
- Plant Different Types of Seeds Plant seeds that have a short germination period. Beans, lettuce, radishes, carrots, and peas were planted in the photos below. Label the seeds by writing on a popsicle stick or directly on the baggie or glove.

PLANTING OPTIONS

- Baggie Place the seeds in a baggie with a damp paper towel.
- Clear Glove Place seeds in each finger with a damp cotton ball.
- Clear Plastic Cup or Plastic Tub-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 arow and record the results.





PLANTING SEEDS CONTINUED

PLANTING WORKSHEET

Students can break up into small groups, pairs, or plant their own 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. You can use cubes to measure or a rainbow ruler (made with a regular wooden ruler). For a tutorial CLICK HERE.





PLANI Grow	th chart HEIGHT
DAY	HEIGHT
	POCKET OF PRESCHOOL

ame:

Pidnting Seeds

Draw what the seed looks like NOW. PREDICT what the seeds will grow into.





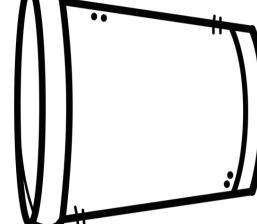


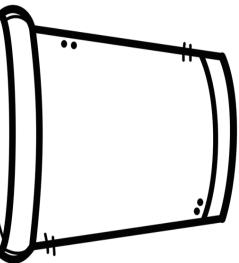








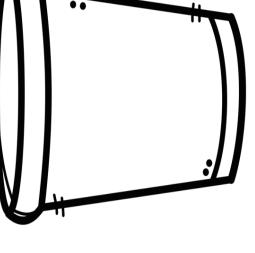






OCKET OF PRESCHOOL

Seeds.



COLOR CHANGING FLOWERS/CELERY EXPERIMENT

Using this color changing experiment, students can predict, explore, observe, and test the plant while collecting data about how the stem carries water to the rest of the plant through this color changing experiment.

Materials Needed

- Clear cups
- White carnations, white daisies, or celery
- Food coloring
- Pipettes or droppers
- Water

Set Up

- Fill each cup half way with water and color with food coloring. The more food coloring that is added the more colorful the flowers will be.
- Place the cups on a tray.
- Cut the celery or flowers and place them in the water.

Experiment

- Talk about what the stem does (carries water from the roots to the rest of the plant). Use the Parts of Plant poster and vocabulary cards as a visual support.
- Predict what will happen to the flowers. Take a photograph of the flowers on day one. Optional - students record their predictions on the recording page.
- Each day observe the flowers, discuss student findings and ideas, and take a photo each day.
- Place the photos in the center for students to compare.
- Optional Students complete their recording pages.





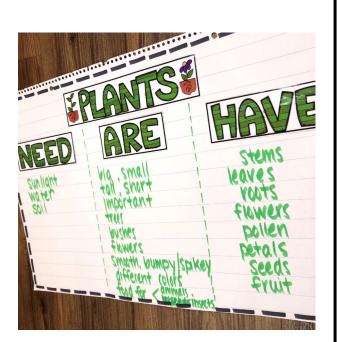
Name:_ Color Changing Experiment **PPPDDGDD00 000000** Draw and write what you Draw and write the predict will happen. results of the experiment.

PLANTS ANCHOR CHART

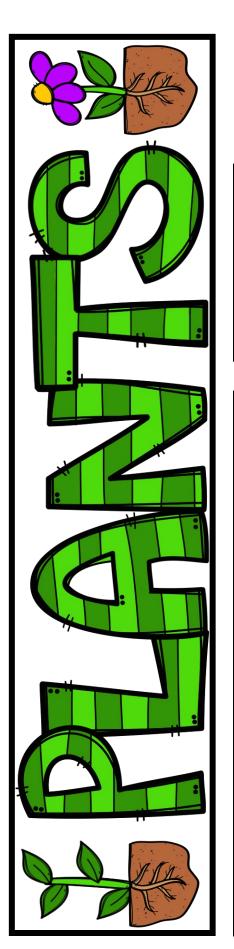
Scientists share their ideas and findings with each other! Have a discussion all about plants at the end of the unit as a way to assess student learning. Have a plant and vocabulary cards next to you to use during the discussion.

Anchor Chart

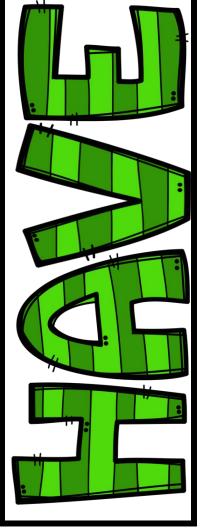
- Cut out the chart pieces and glue to a piece of paper.
 - Write students' ideas, generalizations, and conclusions in each part of the chart.
- Draw conclusions and generalizations.
- This is a fun way to collaborate and share ideas, generalizations, and conclusions based on student investigations and research.

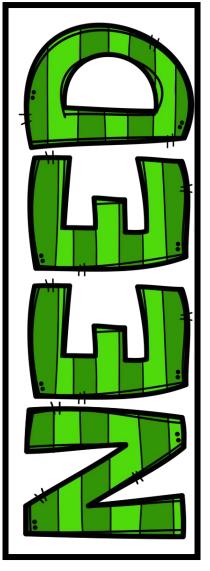


PLANTS				
NEED	ARE	HAVE		
WaterSunlightSoil	 Big Small Tall Short Long Important Flowers Trees Weeds Bushes Spikey Smooth Different colors Food for animals and insects 	 Stems Roots Leaves Flowers Petals Seeds Fruits Pollen 	OUHJSSAG 30 LJAJOG	









Name: Fill in the chart with words and pictures about plants.		ARE	
	PLANTS	HAVE	
	FIII IN The char	NEED	

science instruction teacher pages Included Activities

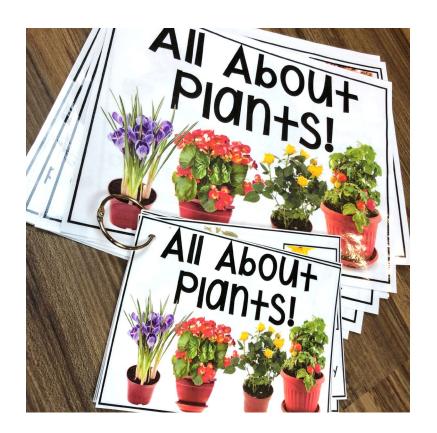
BOOK:

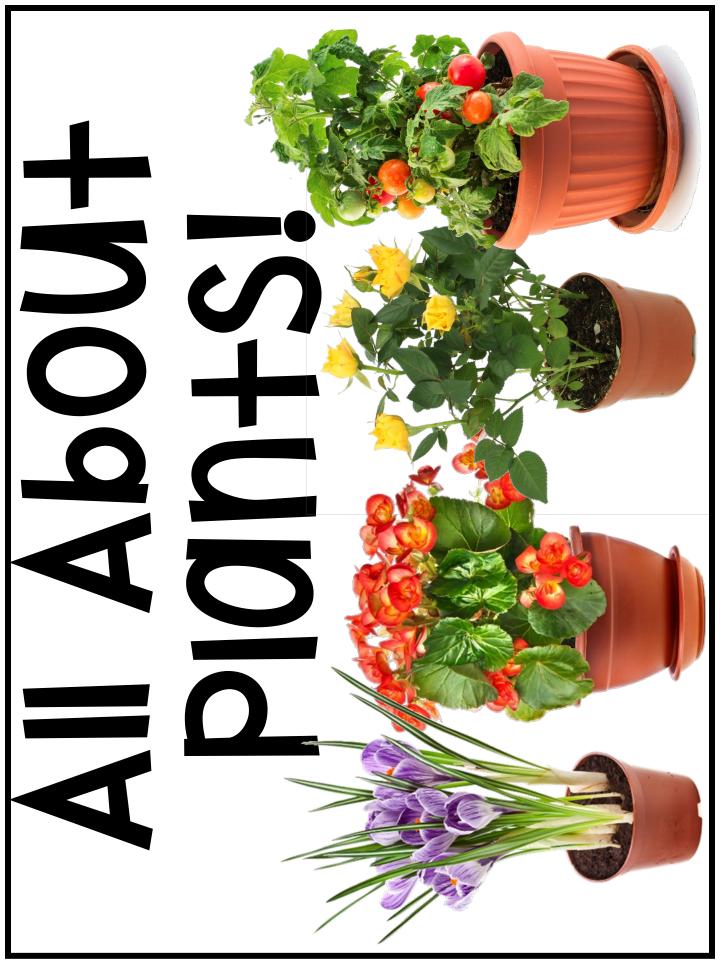
Use the book many ways:

- 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)

EACH PAGE CAN BE A POSTER!

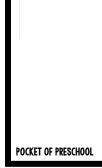
Print single pages and post in the center! See page 2 for printing directions.



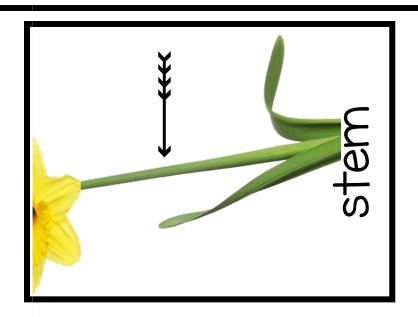




Plants grow from seeds. After a seed is planted a sprout will pop out of the soil







of the ground and it will slowly The stem will grow taller out grow into a mature plant.



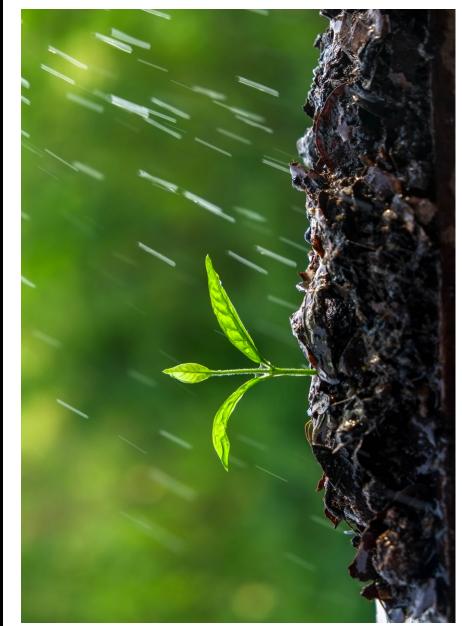
plant are growing down into the SOil



In the center of the flower are seeds which new plants will grow from.

Flower buds begin to grow from bloom into a beautiful flower. the stem of the plant and

4

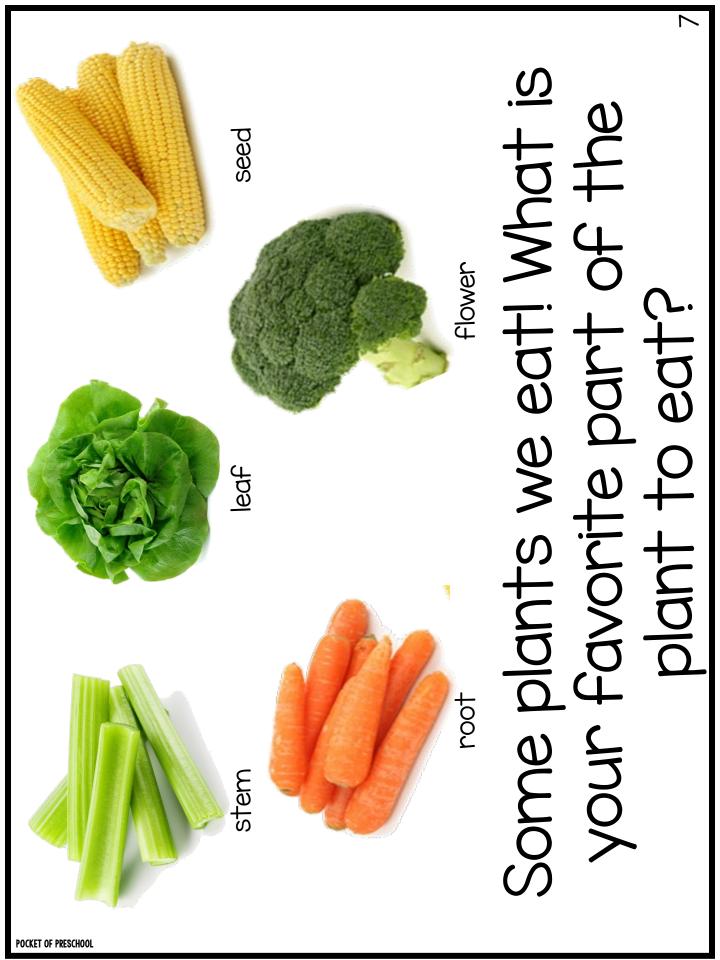


the rest of food up to The stems water and carry the the plant. Plants need water, soil, and light To grow. The roots search for food and water in the soil



The veins in the rest of the leaves sarry the the plant. food and water to

plant. They soak up the sunlight The leaves make food for the and change it into food the plant needs



science instruction teacher pages Included Activities

JOURNAL & DISCOVERY PAGES

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

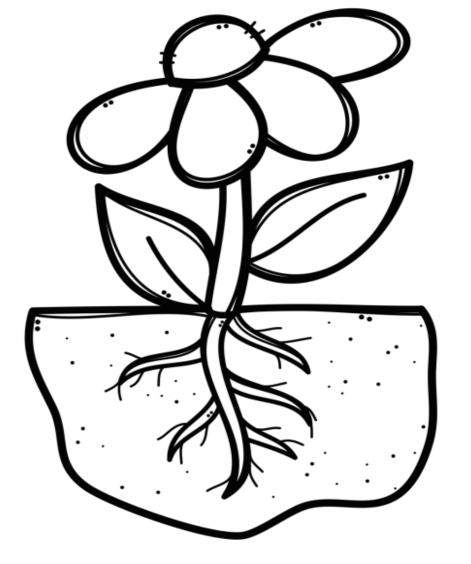
Options:

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



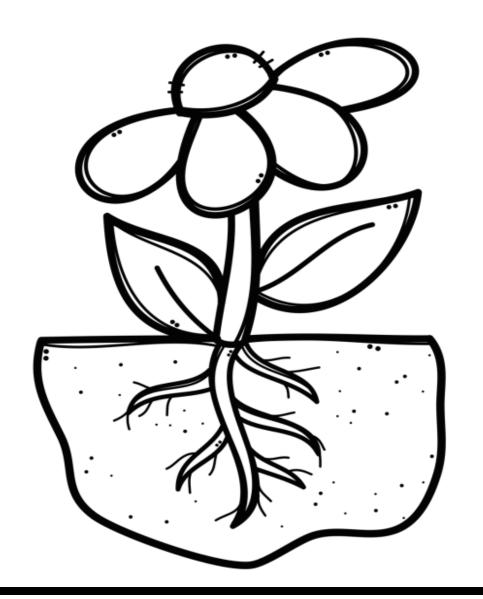


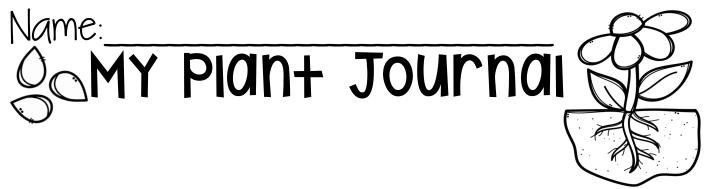
Plant Journal



Name:

Plant Journal

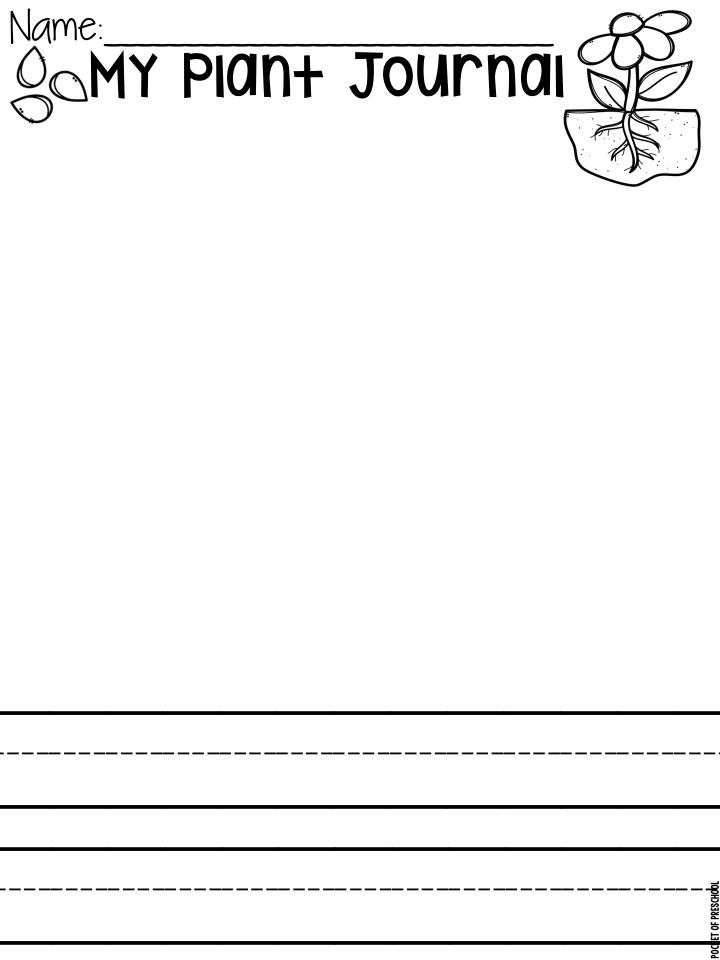




TYET OF PRESCUON



CKET OF PRESCHOOL



Name:__

MY Plant Discoveries



YET OF PRESCUON

Name:__

MY Plant Discoveries



ACKET OF PRESCUON

Name:

MY Plant
Discoveries



science instruction teacher pages Included Activities

NOTE HOME:

Send home the parent note to inform families of all the exciting things their child is learning about in science. 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 students can do at home to continue the learning!



Science update

DEAR FAMILIES,

We are learning All About plants in our classroom! We are exploring the parts, life cycle, and

characteristics of plants. We will

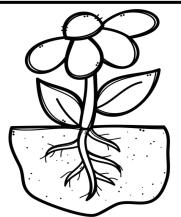
also be doing plant investigations and planting seeds just like real scientists.

AT HOME ACTIVITY

Learn about plants at home! Look in your refrigerator to see what plants you eat. What part of the plant is it (root, stem, leaf, flower)? Have a taste test and try some new foods.

Vocabulary Word List

- Seeds
- Sprout
- Needs Wants
- Roots
- Life Cycle



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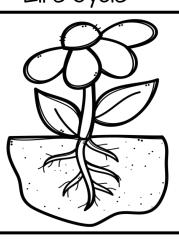
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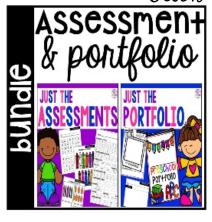
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- Needs
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- Roots
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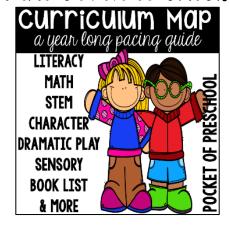


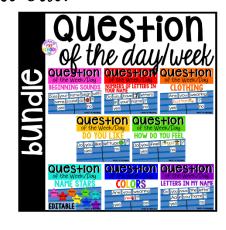
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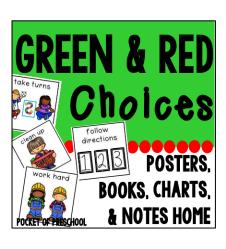
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