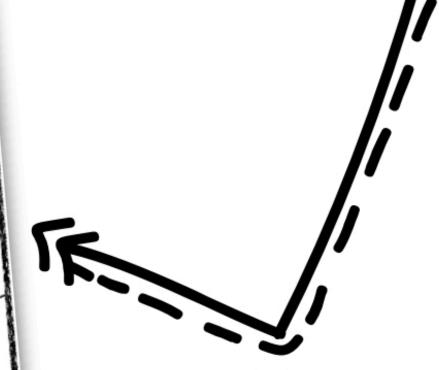
lo science experiments & ACtivities

science Investigations

Plants and Flowers

- 1. How does a plant use water?
- 2. What do plants need to grow?
- 3. How does a potato plant grow?
- 4. Do bugs use plants for shelter?
- 5. How fast does a Lean plant grow?
- 6. How does a carrot plant grow?
- 7. Are there different kinds of leaves?
- 8. Do flowers need stems?
- 9. Which liquid makes a plant grow the most?
- 10. Art Project: Vegetable Stamps



*EACH EXPERIMENT AND ACTIVITY INCLUDES A DETAILED STUDENT SCIENCE JOURNAL! **SEE EXAMPLES ON THE FOLLOWING PAGES**

7 PARent Letter options



SUPPLY Lists

-EASY WAY TO GATHER SUPPLIES -EASY WAS TO SEND HOME TO PARENTS FOR DONATIONS

Art Project:		Investigation:	Investigation:	
_	P Dringe Investigation	1	po bugs use Plants For Shelter?	Investigation: What do Plants need to grow?
Supplies we need: Carrots Potatoes	Are there diffe	rent ve need: Investigation How do carrot Plan	Cinegan, 1	Supplies we need:
Red Cabbage	Supplies we need: Assorted Fresh Leav	Supplies we need:	Buckets or Small Bags Paint Brushes Challow (Clear) Dish	Seeds (any type of bean works great) A Sunny Windowsill Potting Soil
Inves Which Liqu	Assorted Crayons Liquid Glue Blank Paper	Investigation:	Investigation How does a Potat	Investigation: How does a Plant use water?
Supplies we n		bean Plant 9row? Supplies we need:	Supplies we need: Osweet Potatoes	Supplies we need:
OPotting Soil OClear Plastic ODried Beans	Cups	Paper Towels (or cotton balls) Water	Water Toothpicks	Scissors Food Coloring Fresh Flowers (use light colored or white flowers)
Water Milk Juice		Oried Beans Clear Plastic Bag (or container) A Sunny Windowsill	Several Glass Jars A Sunny Windowsill	Celery Stalks
Pop/Soda A Sunny Wi	indowsill	SCOTORION SCOTOR	•	AND THE RESIDENCE OF THE PARTY

detailed teacher

Please read this AND the materials pages carefully before beginning any experiment! These instructions will prepare you for all of the experiments in this packet.

Teacher Instructions

experiment is how does a plant use water?

I. Fill cups with water.

- 2. Add a few drops of food coloring.
- 3. Cut the end of the flower stem or celery stalk (to ensure the water will be absorbed)
- 4. Put the flower or celery stalk in water and wait one day.
- 5. Help students document results in their science journals

experiment 2. What do plants need to grow?

- I. Take the two flower pots and fill them with soil. Leave about an inch of space at the top.
- 2. Make a hole in the center of the soil with your thumb in
- 3. Drop 3 seeds in the hole in each pot and then cover the hole with soil
- 4. Water one of the flower pots with some water and place it in a warm sunny spot.
- 5. Do not water plant 2nd flower pot and place it in a cool dark cupboard.
- 6. Help students document the results over time in their science journals.

EXPERIMENT 5: How fast does a bean plant grow?

Help students put the cotton balls or rolled up paper towels inside container.

- 2. Place several beans about half way down the side of Tr. o that you can see them.
 - that the cotton balls/paper towel is

iner in a sunny windowsill so the beans

document the changes you see as time

to keep adding water every other day

HOW do carro+ Plants grow?

owth over time. (Add water to keep it

of the stump and watch the roots

wards the sunlight and leave for a

are getting enough water to

atton balls to the dish/plate.

unt of water to cotton balls.

at top into the wet cotton balls.

ato plant grow?

- You many need to
- lass jar, the a few inches dway
- ity of the potato is

place where it will get iter as needed to keep e weeks, you should

Mants for Sheller?

- ere students will most leaves, and living
- nd observe for living and
- scoops of leaves and

t of the carrot you can seen above the w the ground.

. . .

e in a sunny window.

experiment 8: Do flowers need stems?

- I. Help the students cut the stem off of one of the flowers
- 2. Fill each cup about halfway with water and place one flower in each cup (one flower without a stem and one flower with a
- 3. After about an hour, check the flowers and help your students write any poting - 1 - les in your journal
 - he flowers again.
 - more days and help your s they see in their journals.

e there different kinds of leaves?

- e a good area for your students to r have a collection of leaves ready for time. Also, this activity is a great discussions about "seasons", "trees", and reat extension check out a book similar ollowing:
- All about Trees for Kids* By Gail Gibbons
- as Change Color?" By Betsy Maestro
- e: Seasons* By H.A. Rey
- ven tie in a book like "The Giving Tree" by you want to be really creative)
- tivity you will need glue and crayons ready as well.
- its have picked two leaves to compare/ by will glue these in the designated spots in al science notebooks.
- OT BE ABLE TO GLUE THIS SCIENCE NTO THEIR SPRIAL UNTIL AFTER THE ADINGS.
 - 5. Crayon Shading: Place the paper ON TOP of the leaf and hold it down while you color on the paper, leaving a really cool imprint of its ridges, edges, etc.

ants like to drink best?

- of soil, seeds, and liquid for each
- and liquid is "watered" then ount of sunlight.
- with each week in their science

IME STAMPS ART

- will need to prepare several stions in prior pages) by need to prepare a workspace ut definitely FUNI
- a taste test, this would mean ed to be cut into bite-size This would be a great way udentsi

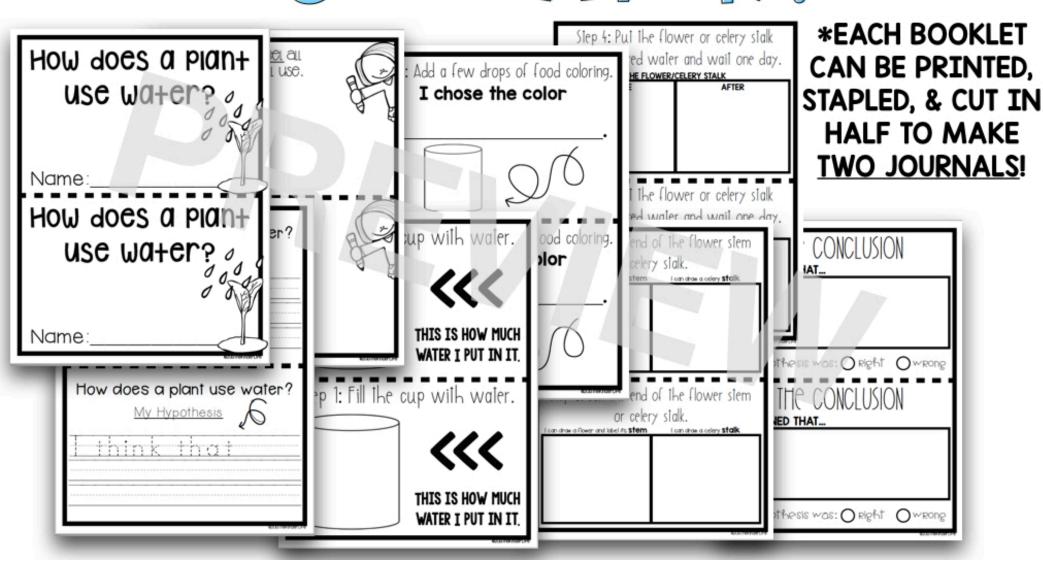
entre other tipe

4. Help students carefully spread out their sample in an appropriate workspace and use paintbrushes to delicately look for living things. Help students identify and describe what they find.

1100 March 100

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How does a Plant use water?



WHAt do PLANTS Need to 9Row?

