

ORDERLINESS

Week 5

Plants 1

Orderliness

Doing things decently and in order...
because...

God gave us a decent and orderly universe

Objectives

Orderliness Week 5

General Objectives

- To learn plant taxonomy and know the characteristics of true plants.
- To learn about angiosperms.

Specific Objectives

- To collect plants and classify them.
- To study photosynthesis and experiment with it.
- To be able to label the parts of a plant.
- To dissect a flower and learn the parts of a flower.
- Eating all the parts of the plant.
- To examine/eat different kinds of angiosperm fruits.

Out of Order

Orderliness Week 5

**Many of the activities
were taken from the
PATIENCE UNIT
In Volume I**

Alert!!!

Orderliness Week 1

Immediate Action!!!

- Locate creek, woods, park, and fields to collect specimens of flowers, grasses, trees.
- Be prepared for a Botanical Buffet finale evening in three weeks.

Weekly Supplies

Orderliness Week 5

Plant press j (p.175)

10"x10"x $\frac{1}{4}$ " MDF or plywood

4 -4"x1/4" screws with wing-nuts

paint and brush

Pulled weeds a (p.172)

Old phone book and colored paper c (p.172)

Collect assorted plants a (p.172)

Photosynthesis

poster board and markers

water bottle or watering can

cleaner plastic bags

green fabric or blanket

baker's hat, apron, spoon, sugar

Weekly Supplies (cont'd 2)

Orderliness Week 5

Alcohol, Mason jar, pot e (p.254)

Lily from a store, Exacto knife for dissecting
k (p.255)

Vaseline g(p.254)

Foil, plant h(p.254)

Egg carton, herb seeds i(p.254)

Stems to eat cc(p.254)

Flowers, fruits, roots, stems, seeds, leaves to eat
and examine.

Index cards rrr (p.263)

Bible Verse

Orderliness Week 5

And the earth brought forth vegetation, yielding seed, after their kind and trees bearing fruit, with seed in them, after their kind, and God saw that it was good.

Gen. 1:12

Focus Books

Orderliness Week 5

- A** *Usborne Spotter's Guide: Wildflowers of North America*
Peterson First Guides: Trees by George Petrides
Look at Flowers by Anne Dowden
The First Book of Plants by Alice Dickinson
Why Plants are Green Instead of Pink by Julian May
The Apple and Other Fruits by Millicent Selsam
Flowers and Flowering Plants by Arthur Aldrich
What is a Fruit by Jennifer W. Day
A First Book of Vegetables by Page Cary
The First Book of Trees by M.B. Cormack
Bulbs, Corms, and Such by Millicent Selsam
- Y** *Seeds and More Seeds* by Millicent Selsam
The Carrot Seed by Ruth Kraus
The Tiny Seed by Eric Carle

Writing Assignment

Orderliness Week 5

- **Y** Write or dictate 5 sentences describing the blooming of a flower. Be sure to include all the parts of the flower by name.
- **M** Write or dictate 5 sentences describing the blooming of a flower. Be sure to include all the parts of the flower by name.
- **O** Write a short explanation paper on the life cycle of a plant from seed to flower OR on the process of photosynthesis.

Grocery Shopping List

Orderliness Week 5

- Roots: carrots, turnips, beets
- Stems: celery, onions, potatoes, garlic
- Leaves: cabbage, lettuce
- Flowers: broccoli, cauliflower
- Fruit: apple, pear, peach, plum, cherry, blackberry, strawberry, banana, tomato, cantaloupe, orange, nuts, legumes

Timeline Characters

Orderliness Week 5

NONE

Vocabulary

Orderliness Week 5

General

Botanist

Botany

Photosynthesis

Chlorophyll

Chloroplast

Carbon dioxide

Oxygen

Glucose

Carbohydrates

Plant parts:

Roots

Tap root

Fibrous root

Stems

Bulb

Corm

Rhizome

Tuber

Branches

Leaves and flowers

Vocabulary (Cont'd 2)

Orderliness Week 5

Flower Parts

Petals

Nectar

Male parts:

Stamen

Anther

Filament

Pollen sacs

Pollen=sperm

Pollinate

Cross-pollinate

Female Parts:

Receptacle

Pistil

Stigma

Style

Ovaries

Ovules=eggs

Sepals

Bud

Fruit

Vocabulary

Orderliness Week 5

Angiosperm

Monocot

Dicot

Fruits

Succulent Fruits

Pomes - apples

Drupes - plum, cherry, peach

Aggregate - raspberries,
blackberries

Berries - orange

Dry Fruits

Nuts

Legumes

Grains

Importance of Compartments

Orderliness Week 5

Compartments are boxes
where related information
goes...

Without compartments, you
have no place to put
information to retrieve it

Eei NOT Eeyore

Orderliness Week 5

- Explore
- Examine
- Inspect
- I-den-ti-fy

How Deep to Learn

Orderliness Week 7

All this information will be revisited in high school biology OR college botany

We are playing with the information OR familiarizing children with information

Not necessary to learn all names... those are given for parents to understand the concepts and make the divisions/classifications clearly
IF THEY WANT TO AND IF THEIR CHILD CAN UNDERSTAND

Permission Slip

Permission Coupon

Free pass to skip one activity
or other assignment
(Feel free to copy as often as needed)

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Free pass to skip one activity
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Activities

Orderliness Week 5

Monday

- b (p.253) Discuss the different characteristics of plants/animals.
 - a (p.253) Pull weeds and compare body parts of plants.
 - a (p.172) Go for a nature walk and collect an assortment of plants.
 - c (p.172) Classify all of the plants into categories and begin to dry in a phone book.
 - j (p.175) Make a 10" x 10" plant press.
Fix and eat some roots.
- Kids: clean your rooms (spotless)

Activities (cont'd 2)

Orderliness Week 5

Tuesday

c (p.254) Research/discuss photosynthesis.

f (p.254) Draw a picture of photosynthesis.

Dramatize photosynthesis.

e (p.254) Do the leaf in alcohol experiment.

a (p.172) Go for a nature walk again and collect an assortment of plants.

c (p.172) Classify all of the plants into categories and begin to dry in a phone book.

Design cover for your plant press.

Fix and eat some leaves.

Organize

Activities (cont'd 3)

Orderliness Week 5

Wednesday

g (p.254) Do leaf/Vaseline experiment.

h (p.254) Do leaf/foil experiment.

i (p.254) Do leaf/sunlight experiment. Paint your plant press.

a (p.172) Go for a nature walk again and collect an assortment of plants.

c (p.172) Classify all of the plants into categories and begin to dry in a phone book.

cc (p.257) Fix and eat stems

Organize

Activities (cont'd 4)

Orderliness Week 5

Thursday

k (p.255) Dissect a flower and identify parts.

l (p.255) Dissect an irregular flower.

Define botany and pollination.

Dramatize pollination. Cast of characters: stamen, stigma, petals and bee.

a (p.172) Go for a nature walk again and collect an assortment of plants.

c (p.172) Classify all of the plants into categories and begin to dry in a phone book.

Fix and eat some flowers.

Organize

Activities (cont'd 5)

Orderliness Week 5

Friday

Define angiosperms.

qqq (p.263) Examine, dissect, draw fruit.

Define fruit and name as many fruits as you can.

Define succulent fruits and name as many succulent fruits as you can.

Define an aggregate fruit and name as many aggregate fruits as you can.

Define a drupe and name some drupe fruits as you can.

Define dry fruits which have hard walls around their seeds and name as many as you can.

rrr (p.263) Draw stages of plant growth.

Fix and eat some fruit.

Organize

Compare Angie to Gymno

Orderliness Week 7

Angiosperm

- Leaves
- Shed leaves each *fall*.
- Covered seed
- Male and female usually in same flower

Gymnosperm

- Needles
- Leaves or needles stay on tree year round. There is no *fall* with evergreens!
- Naked seed in cones
- Some cones male and some female

Design and Intelligence

Orderliness Week 5

- **Design** = a plan
- Only **intelligence** can make or have a plan
- **Time** cannot make a plan or replace intelligence

Field Trips

Orderliness Week 5

- Visit the front and back yard, park, woods, to look for and assortment of plants to classify and press in your plant press.
- Shop for a lily at a store or florist.
- Shop at the grocery store for plants for the family to eat.

Suggestions for Dad

Orderliness Week 5

- Shop for and help make the plant press.
- Take kids on a hike, mountain climb, camping trip, or nature walk to collect an assortment of plants.
- Continue to work with the children to put something in order, especially outside after a long winter. Are you creating a team attitude! Are you fun to work with, or a demanding grump?

Focus of the Week

Orderliness Week 5

- **Learning plant taxonomy and knowing the characteristics of true plants.**
- **Studying about angiosperms.**
- **Collecting plants and classifying them.**
- **Studying photosynthesis.**
- **Eating the parts of the plant.**
- **Labeling the parts of a plant.**
- **Learning about monocots and dicots.**

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Thanks,
Wade and Jessica Hulcy