

ORDERLINESS

Week 1

Orderliness

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

God gave us a decent and orderly universe

Objectives

Orderliness Week 1

General Objectives

- To be able to categorize and classify.
- To learn to be orderly.

Specific Objectives

- To collect examples of a wide variety of animals and discover different ways of classifying, including current taxonomy
- To study Aristotle, Linnaeus, and Lamarck's classification
- To study Porifera, Coelenterates, Annelida, and Mollusk.
- To begin making a Tree of Life.
- To practice using vivid verbs, specific nouns, and descriptive adjectives while writing descriptive paragraphs.
- To read *Pagoo*.

Color Codes

Blue slides are morning.

Yellow slides are afternoon.

Red slides are general instruction.

Taupe slides are dads and field trips.

White slides are supplies and action items.

Green slides are timeline characters.

Alert!!!

Orderliness Week 1

Immediate Action!!!

- Locate creek, woods, park to gather from.(Wk.1)
- Schedule aquarium visit.(Wk.3)
- Schedule fishing trip with Dad.(Wk.3)
- Schedule zoo trip. (Wk.4)
- Earthworms to examine.(Wk.1)
- Whole clams in shells to examine and eat.(Wk.1)
- Snails and slugs to examine. (Wk.1)
- Insects to collect and mount. (Wk.2)
- Lobster, crab, shrimp to eat.(Wk.2)
- Crayfish to dissect.(Wk.2)
- Whole fish to examine and eat.(Wk.3)
- Frog or toad to examine.(Wk.3)

Alert!!!

Orderliness Week 1

Immediate Action!!!

**For specimens go to
Tobin's Lab
and order**

Weekly Supplies

Orderliness Week 1

animals pictures a(p.165)

8 sorting boxes, index cards, paper clips
b(p.165)

fresh clams and live earthworms and snails

poster and marker for Tree of Life

stuffed animals h(p.166)

balloon for squid

squirt bottle

measuring tape

plunger or suction cups

Bible Verse

Orderliness Week 1

And God made the beast of the field after their kind; cattle after their kind, and everything that creeps on the ground after its kind. And God saw that it was good.

Genesis 1:25

Focus Books

Orderliness Week 1

A *Pagoo*

by Holling C. Holling

*The First Encyclopedia
of Animals*

by David Burnie and
Linda Gamlin

Books on:

invertebrates

sponges

sea anemone/clown fish

jellyfish

Portuguese man-o-war

coral

earthworm/leeches

clams/oysters/scallops

octopus/squid

snails/slugs

sea slug/cuttlefish

whelks/cockles

starfish/sea urchin

Videos and Songs

Orderliness Week 1

Videos: *Finding Nemo*

2,000 Leagues Under the Sea

Writing Assignment

Orderliness Week 1

- **Y** Write or dictate 5 sentences describing each new creature added to the Tree of Life
- **M** Write 5 sentences about one of each phylum added to the Tree of Life
- **O** Write 8-10 sentences about each phylum added to the Tree of Life

Writing Tips

Orderliness Week 1

Speaking

Talking

Dialogue

is the basis for...

WRITING

Writing Tips (cont'd 1)

Orderliness Week 1

STUDENT

- Describe a clam in one stand alone sentence... "A clam is an oval, soft-bodied organism that lives in water, breaths by gills and is enclosed in two hard shells for protection."
- Use series to add information
- Use vivid verbs, specific nouns along with descriptive adjectives to build each sentence
- Hammer out each sentence

MOM

- Ask questions to prime the pumps.

Timeline Characters

Orderliness Week 1

Adam

Aristotle

Linnaeus

Lamarck

Vocabulary

Orderliness Week 1

General

characteristic

organism

taxonomy

Kingdom

Phylum

Class

Order

Genus-Species

breed

Moneran

Protista

invertebrate

vertebrate

chordata

classify

Porifera

*sponges

colony

Vocabulary (cont'd 2)

Orderliness Week 1

Coelenterate

*sea anemone

clown fish

immune

*jellyfish

tentacles

*Portuguese man-o-war

*coral

Annelida

Segmented

*earthworm

*planaria

*tapeworm

*leech

parasite

regenerate

Vocabulary (cont'd 3)

Orderliness Week 1

Mollusk

mantle

gills

digging foot

eye

beak

ink

radula

cephalopod

bivalve

*clam

*oyster

*scallop

*octopus

*squid

*snail

*slug

*seaslug

*cuttlefish

*whelk

*cockle

Vocabulary (cont'd 4)

Orderliness Week 1

Echinoderm

*starfish

*sea urchin

test

*sand dollars

suction

radial

tube feet

regenerate

Conversation

Orderliness Week 1

**"Conversation builds
executive brains."**

Jane Healy

Endangered Minds

Dialogue

Orderliness Week 1

DIALOGUE

DIALOGUE

DIALOGUE

DIALOGUE

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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Activities

Orderliness Week 1

Monday

Read about the order of God creating the plants and animals, and Adam naming the animals.

p (p.167) Look up taxonomy in the dictionary.

a (p.165) Collect animal pictures, figures, and even stuffed animals to divide into like groups.

b (p.165) Make 6-8 sorting boxes.

Make a Tree of Life with 5 Kingdoms on poster.

Explain the classification system.

Everyday pick something to organize. Some things may take more than one day, so work on organizing for 15 minutes to one hour a day.

Characteristics X's 100

Orderliness Week 1

- Vertebrate or invertebrate?
- Soft body or hard body?
- How does it breath, eat, move?
- Where does it live?
- Fur, feathers, scales, shell, exoskeleton?
- How does it reproduce and care for young?
- Warm-blooded or cold-blooded?
- Group or alone?
- Appendages-number, type, use?

5 Kingdoms for Tree of Life

Orderliness Week 1

- **Plant Kingdom**- green plants that need light
- **Fungi Kingdom**- non-green plants that do not need light
- **Monera Kingdom**- germs
- **Protista Kingdom**- single cells living in water
- **Animal Kingdom**- bugs to whales

Every Creature Has An Address

Orderliness Week 1

- **Kingdom**= continent
- **Phylum**= country
- **Class**= state
- **Order**= county
- **Family**= city
- **Genus**= street
- **Species**= your house

Classify A Cat

Orderliness Week 1

- **Kingdom is Animal**
- **Phylum is Chordata** (backbone)
- **Class is Mammal** (warm blooded)
- **Order is Carnivore** (eats meat)
- **Family is Felidae** (cats including lions and tigers)
- **Genus and Species are Felis Domesticus** (not wild cat)

Activities (cont'd 2)

Orderliness Week 1

Tuesday

q (p.167) Research Aristotle, Linnaeus, Lamarck.

g (p.166) Sort marine vs. fresh water in boxes.

Sponges are in the animal kingdom Phylum Porifera. Look at pictures of different types of living sponges.

Locate sponges in your house. Tell their properties.

Glue a sponge to Tree of Life for Porifera phylum.

Phylum Coelenterata includes sea anemones, jellyfish,

Portugese-man-of-war, and corals. They live where?

Research jellyfish.

Play jellyfish tag.

Add jellyfish to your Tree of Life for your Coelenterate.

Organize.

Activities (cont'd 3)

Orderliness Week 1

Wednesday

† (p.169) Look for animal products.

Phylum Annelida contains the segmented worms such as earthworms and leeches. Research leeches.

Study earthworms. Dig some up, keep in a moist jar. Feed them lettuce and observe at night with flashlight.

Define *segmented*. Count the segments.

Hold the earthworm and feel the bristles that pull him through the dirt. Watch him move.

Add the phylum Annelida to your Tree of Life.

Organize.

Activities (cont'd 4)

Orderliness Week 1

Thursday

Read about Phylum Mollusk -clams, mussels, and snails and list their characteristics.

Define bivalves and list bivalve creatures.

Purchase fresh clams, open the shell, find gills, mantle, digging foot, shell closing muscles.

Snails and slugs leave shiny snail trails. Hunt for these.

Find snails and observe how they move.

The saw-like tongue of a snail is a *radula*.

Hunt for snail holes in center of leaves.

Activities (cont'd 5)

Orderliness Week 1

Thursday (cont'd)

Squids can be as small as 1" or as long as 60 feet. Measure each.

Squids move by taking water into their mantle, then squirting it out their siphons. Release a balloon filled with air under water.

Play squid hide-and-seek with *ink alerts*.

Add this phylum Mollusk to Tree of Life.

Organize.

Activities (cont'd 6)

Orderliness Week 1

Friday

Look up the meaning of echinoderm.

Read about the starfish and the sea urchin. Locate their mouths and tell how and what each eats.

Define test.

Demonstrate with a plunger the strength of suction feet.

Define regenerate. Pretend your arm is cut off in your sleeve and regenerate it.

Oyster fishermen used to cut up starfish when they found them. Discuss why this is a bad policy.

Add echinoderms to your Tree of Life.

Organize.

Without
experiences
students have
no *concepts*

Suggestions for Dad

Orderliness Week 1

- Teach Scripture verses. Read the Genesis account of creation and discuss what God made each day.
- Give out vocabulary words.
- Take kids on collection trip in the yard, at the creek, at the park.
- Time the kids sorting their animal groups.
- Demonstrate *orderliness* by cleaning garage or car. (Dads always lead by example!)

Field Trips

Orderliness Week 1

- Explore the garden, yard, park, creek turning over rocks and logs to find creatures. Be careful if it is very warm always on the look out for snakes.

Focus of the Week

Orderliness Week 1

- Learning to categorize and classify
- Practicing being orderly
- Collecting samples of a wide variety of animals
- Discovering different ways of classifying
- Making a Tree of Life.
- Using vivid verbs, specific nouns, and descriptive adjectives and adverbs in writing descriptive paragraphs about each phylum.
- Reading *Pagoo*.

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Thanks,
Wade and Jessica Hulcy