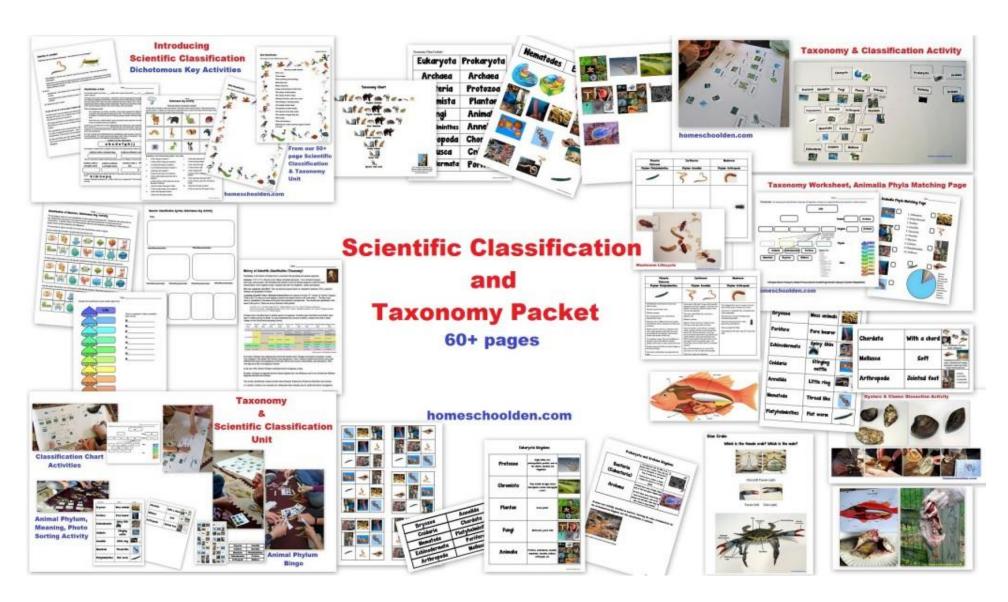
Scientific Classification & Taxonomy Packet Quick Preview



What is taxonomy and why do we need to study it?! Taxonomy is the science of classification. Our biosphere supports more than 7 million *known* species and probably 4 or 5 million more *unknown* species! Taxonomists work on organizing the vast quantity of species. They are continually updating the classifications to keep up with new research and new discoveries.

What is in the Scientific Classification and Taxonomy Packet?

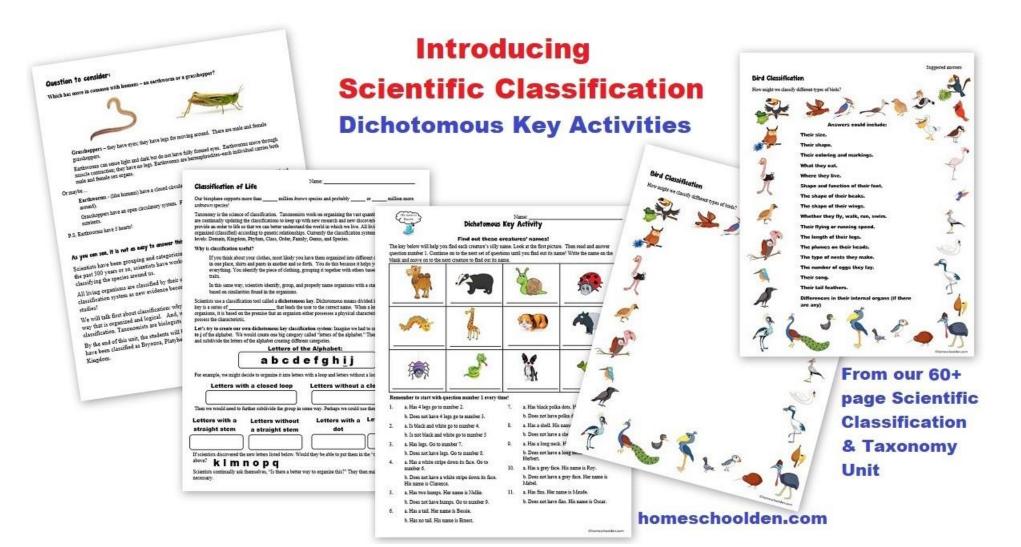
As we started off this unit, we started off by talking about **why we classify things**. We learned about the **dichotomous key** and did a number of activities to understand how they work. We talked about why classification is useful and how we can do that in a way that is organized and logical.

Then we went into more detail about the **history of classification**. Scientists have been grouping and categorizing different species for most of human history. In the past 300 years or so, scientists have worked on developing a logical, organized system for classifying the species around us.

All living organisms are classified by their characteristics. We keep adding to and adjusting the classification system as new evidence become available through DNA research and molecular studies! We talked about **Linnaeus** and his contributions to the classification of animals and his system of naming organisms (**binomial nomenclature**).

We talked about the **current system of classification** and by the end of the unit, the kids were readily able to identify the types of organisms that have been classified as Bryozoa, Platyhelminthes, Porifora and other phyla in the Animalia Kingdom.

We did a number of **hands-on activities** studying and observing various species and even did some simple dissections at the end of the unit.





Dichotomous Key Activity with Monsters

Manster Classification System, Dichotomous Key Activity

Title Characteristic:

Title Characteristic:

Title Characteristic:

Title Characteristic:

First grouping: Those with black and white eyes, those with colored eyes.

First grouping: those with eye-stalks and those without



First grouping: Those with spikes/protrusions, those without

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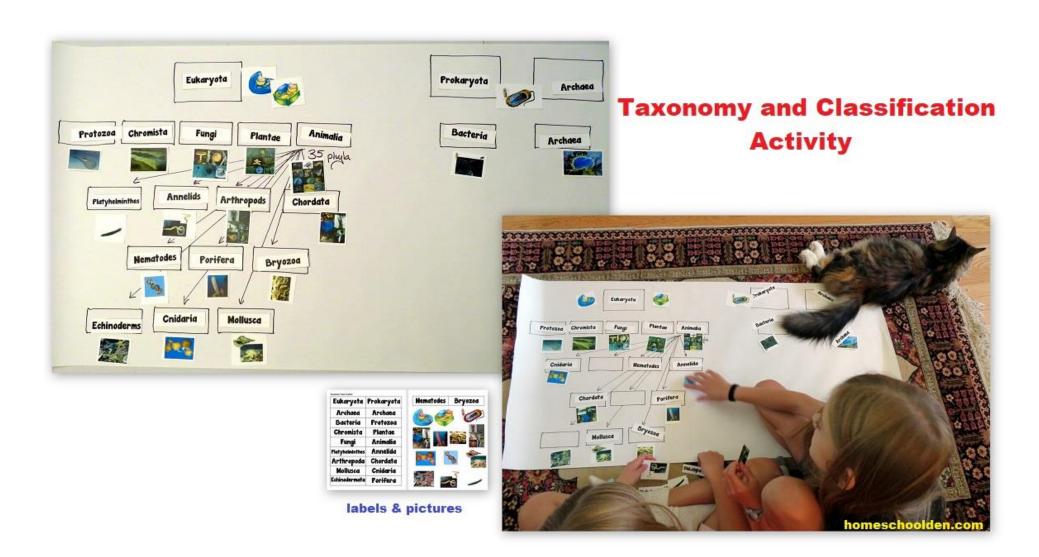
History of Scientific Classification/Taxonomy Notebook Pages



The current classification solution states states Dominio; Englayous, Prolatypes (Section) and Arthurs.

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Species: Felix catus



Classification Chart Activities

Taxonomy & Scientific Classification Unit

Bryozod
Poriferd

Animal Phylum, Meaning, Photo Sorting Activity





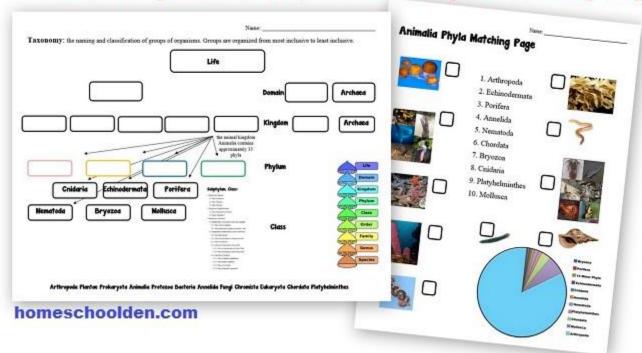






Animal Phylum Bingo

Taxonomy Worksheet, Animalia Phyla Matching Page



Major Phyla of the Kingdom Animalia

Tic-Tac-Toe Game!







Bryozoa	Annelida	
Cnidaria	Chordata	
Nematoda	Platyhelminthes	
Echinodermata	Porifera	
Arthropoda	Mollusca	

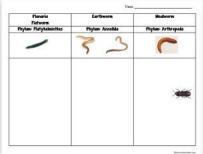
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Taxonomy What phylum is... mealworm arthropod planarian platyhdminthes earthworm annelida Clam mollusca Shrimp arthropod fist Chordata



Planaria Flatworm	Earthworm	Hedworm
Phylum: Pletyhelminthes	Phylan: Annelida	Phylum: Arthropode
	3	
Soft, flatheast prices that keys torons and innered organi Then have our one body cavity	Ness means "little ring" because of the ring-like appearance of its holy segments. The holy of an analysis is divised into segments (insural realis become each segment).	Class: Interin, these are more species of interior than all other groups of animals after votay. Interior have a segmented body, encolations in
Bilateri cymnety	They have a Stud-Stied body cavity plan a	Joint appendages
Marry a boad and two some conduction con	diputive tact	They have jews, one pay of accessor and
alcopule that foolies.	Silancial symmetry	solosocked appendiges.
Flatvoccus only on diffusion for some essential body flavoriess such as respiration, exceptes and constants.	Digestive System: they have a digestive table. Fixed passes from the seconds to the secon	Streets Some Street-gart hocker with a breat, Shows and abdomes
Director System, they have a director county	Closed chicalgory system. Blood is contained	Non an utsped for flight
with a single opining (nervit) find and music pass through this are opining. Their mustb is located to the middle of their body:	within a nervice of food vessels that run from head to mill. Elect in the decel vessel One) moves toward the head of the worm. Elect is the vest of Persons record men from load to mill. Elect vessel consecution to good better result and rungle friend on the inventor expen. The short of legit vessel also like a head by it is continued in persons.	They go foreigh from life respectage, leve, prope, and adult
No circulation in meas. They sely of diffusion to transport on year and matrices to internal organize and to remove carbon districts and warm		
Eproper: group of calls that can descri charges in. the second of light	Has a well-developed servous system. They	
blost species of planations can represente body parts.	don't have eyes, but can describe and light. They have I seeper unto of muscles.	



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Hands-On Study & Observation of mealworms, earthworms, Planaria, oysters & clams, crabs, fish





Scientific Classification & Taxonomy Unit (60+ page packet)

