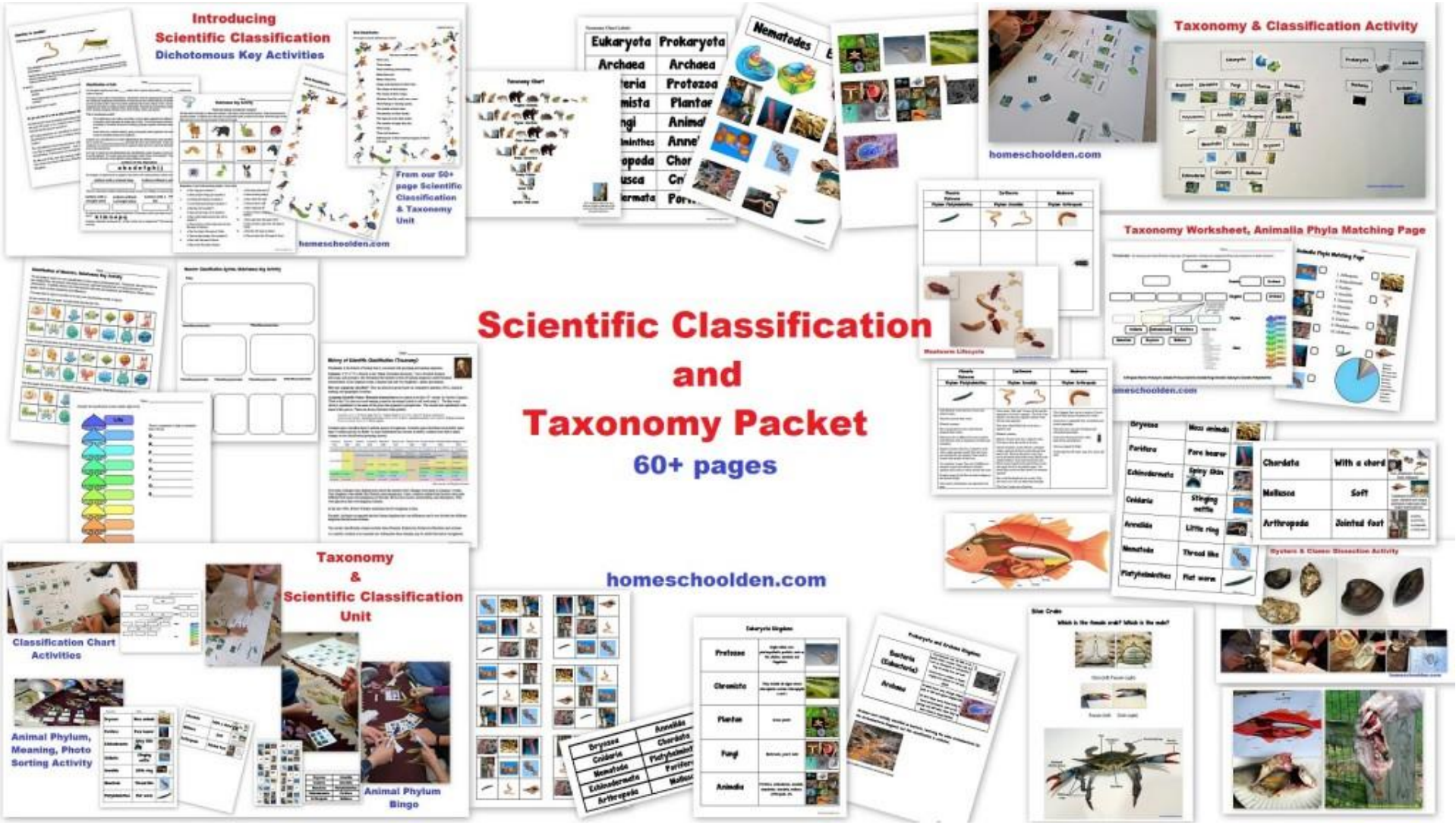
Scientific Classification & Taxonomy Packet Quick Preview



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.

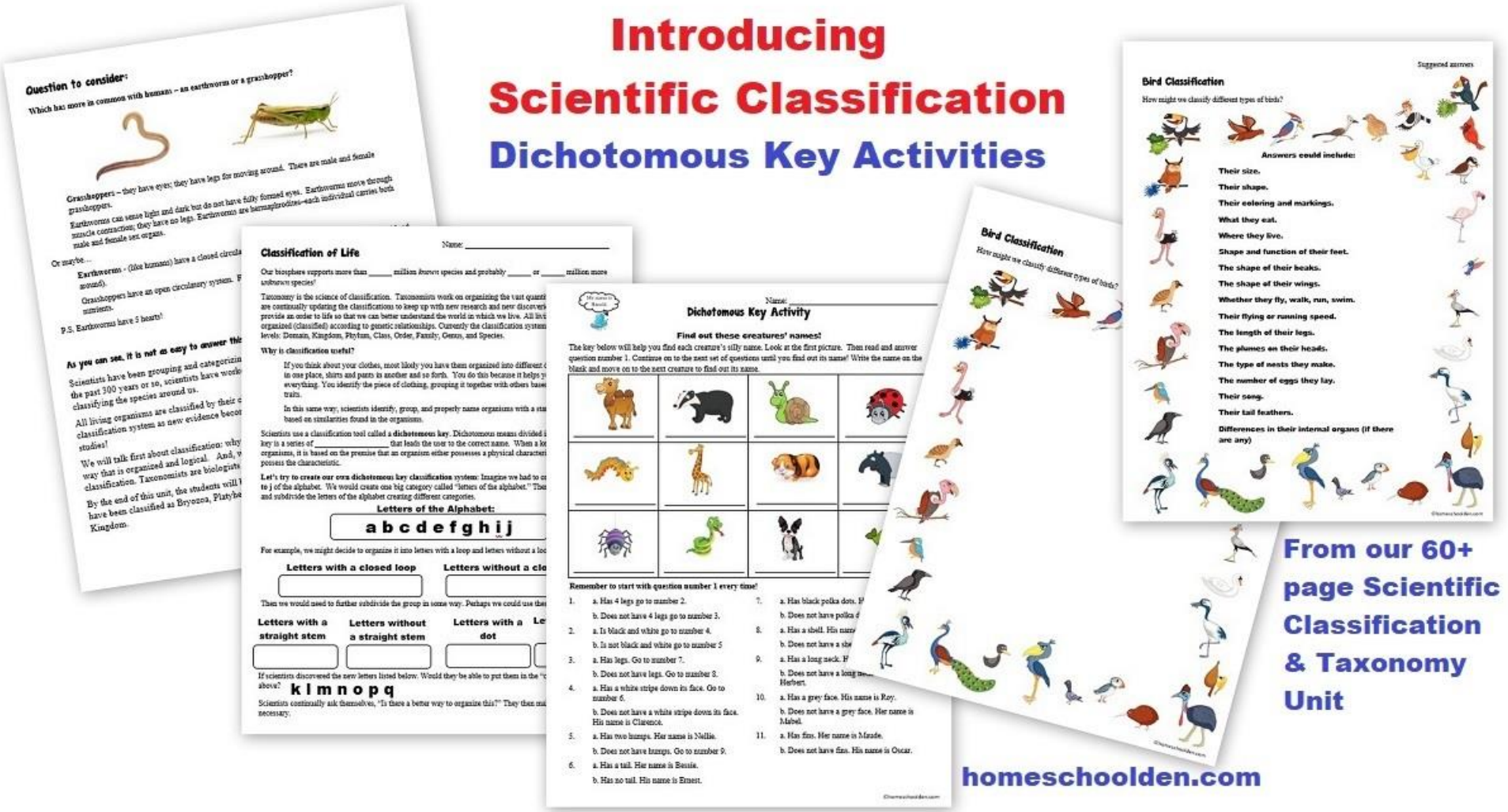
Then we went into more detail about the **history of classification**. Scientists have been grouping and categorizing different species for most of human history. In the past 300 years or so, scientists have worked on developing a logical, organized system for classifying the species around us.

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.

Introducing
Scientific Classification
Dichotomous Key Activities



From our 60+ page Scientific Classification & Taxonomy Unit

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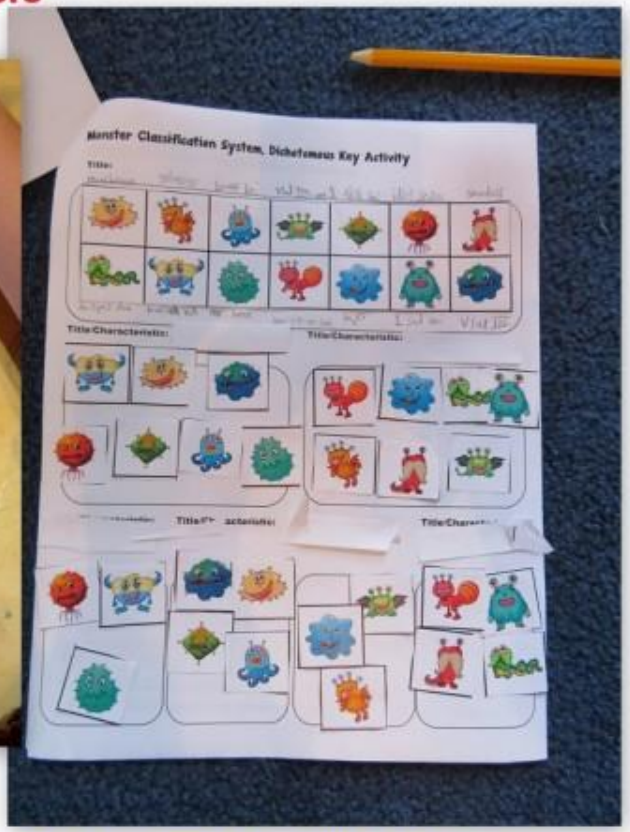
Dichotomous Key Activity

Dichotomous Key Activity with Monsters

First grouping: those with eye-stalks and those without

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



First grouping: Those with spikes/protrusions, those without

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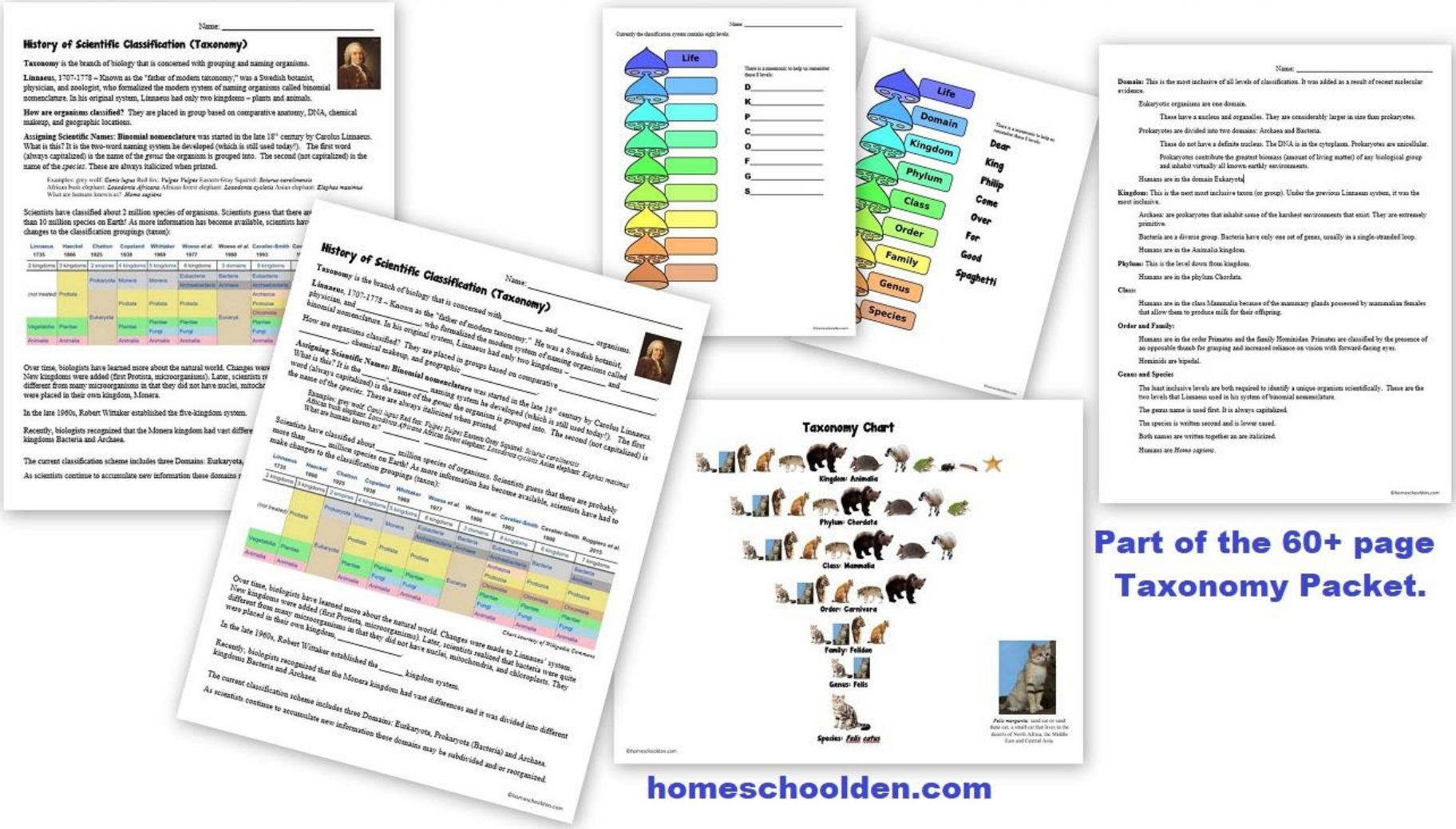
History of Scientific Classification/Taxonomy Notebook Pages



Part of the 60+ page Taxonomy Packet.

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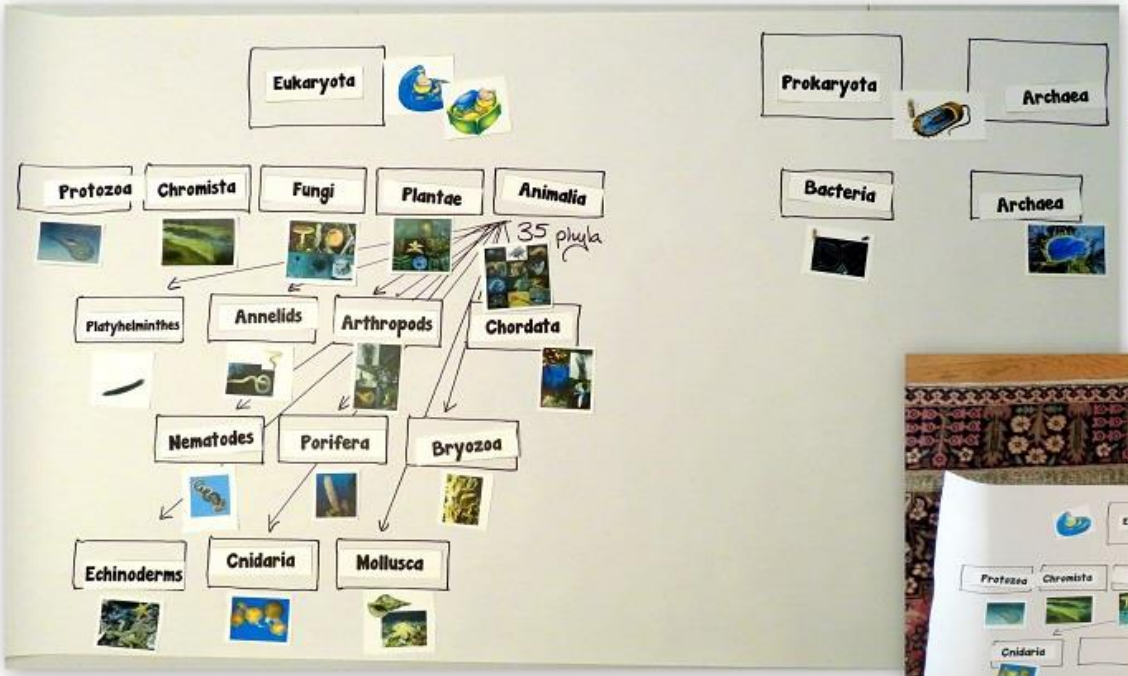
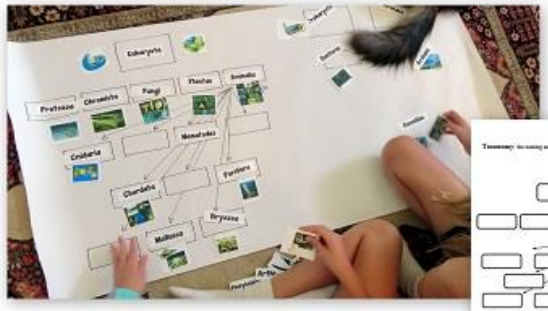
Taxonomy and Classification Activity

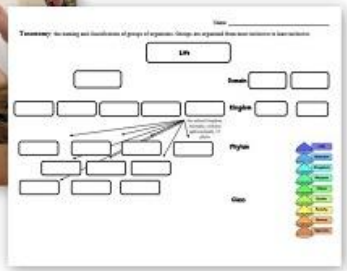


Eukaryota	Prokaryota
Archaea	Archaea
Bacteria	Protozoa
Chromista	Plantae
Fungi	Animalia
Platyhelminthes	Annelida
Arthropoda	Chordata
Mollusca	Cnidaria
Echinodermata	Porifera

labels & pictures

Taxonomy & Scientific Classification Unit





Classification Chart Activities

Phylum Name	Meaning	Example
Bryozoa	Moss animals	
Porifera	Pore bearer	
Echinodermata	Spiny Skin	
Cnidaria	Stinging nettle	
Annelida	Little ring	
Nematoda	Thread like	
Platyhelminthes	Flat worm	

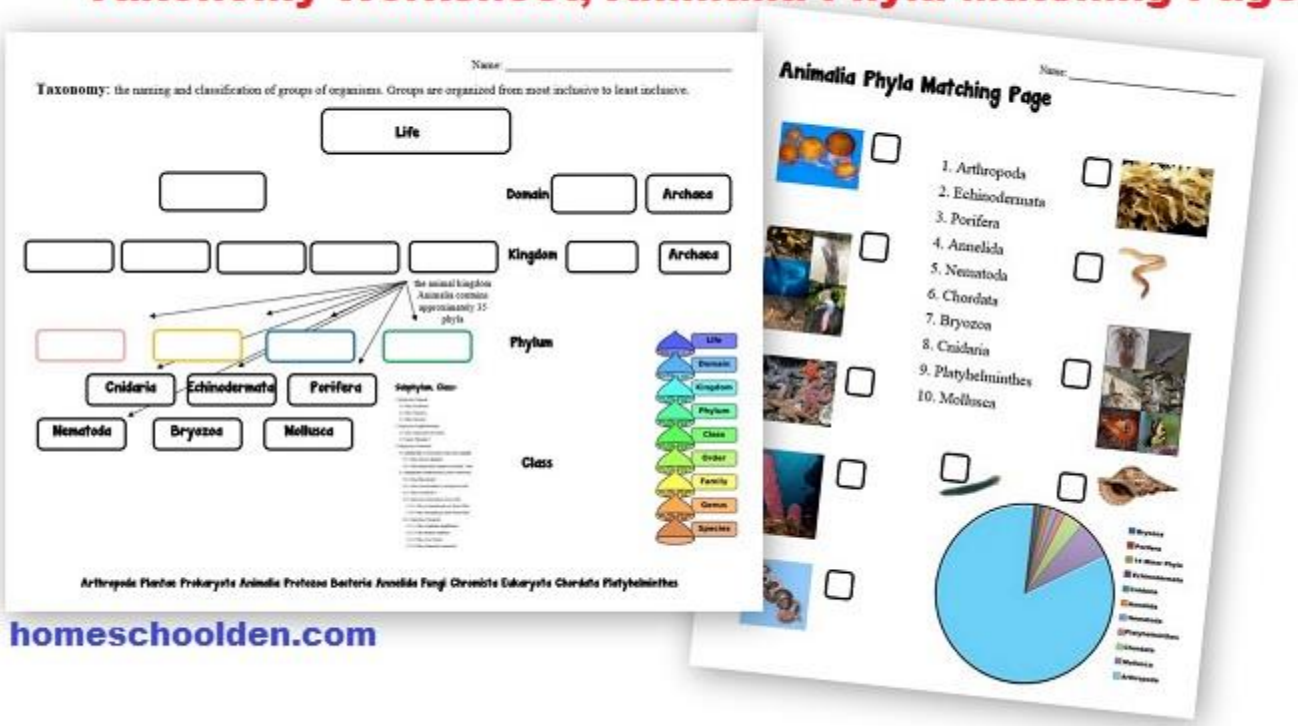
Animal Phylum, Meaning, Photo Sorting Activity

Chordata	With a chord	
Mollusca	Soft	
Arthropoda	Jointed foot	

Bryozoa	Annelida
Cnidaria	Chordata
Nematoda	Platyhelminthes
Echinodermata	Porifera
Arthropoda	Mollusca

Animal Phylum Bingo

Taxonomy Worksheet, Animalia Phyla Matching Page



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Major Phyla of the Kingdom Animalia

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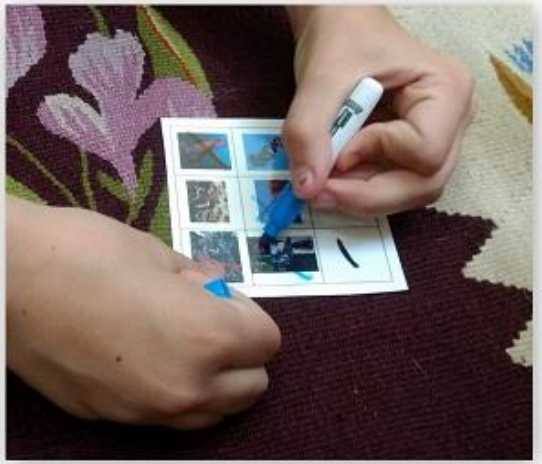
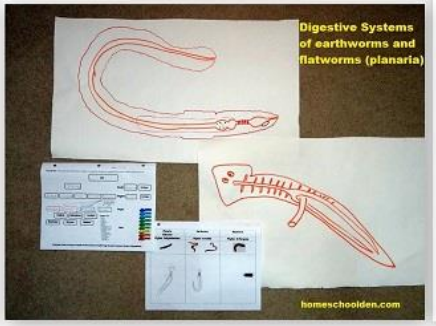
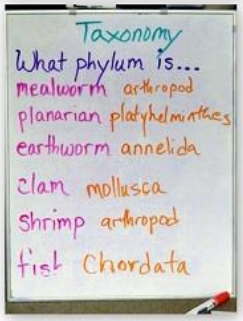
Tic-Tac-Toe Game!

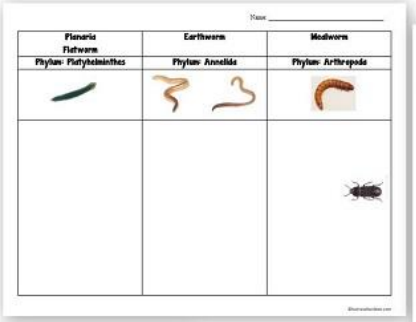


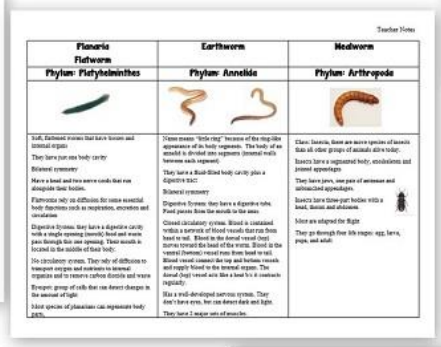
Bryozoa	Annelida
Cnidaria	Chordata
Nematoda	Platyhelminthes
Echinodermata	Porifera
Arthropoda	Mollusca

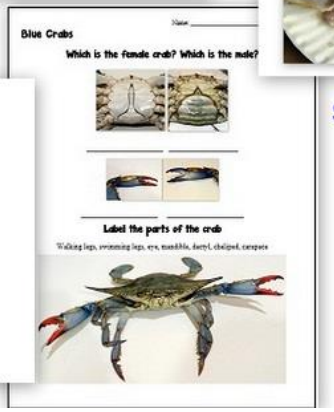
Hands-On Study & Observation of mealworms, earthworms, Planaria, oysters & clams, crabs, fish











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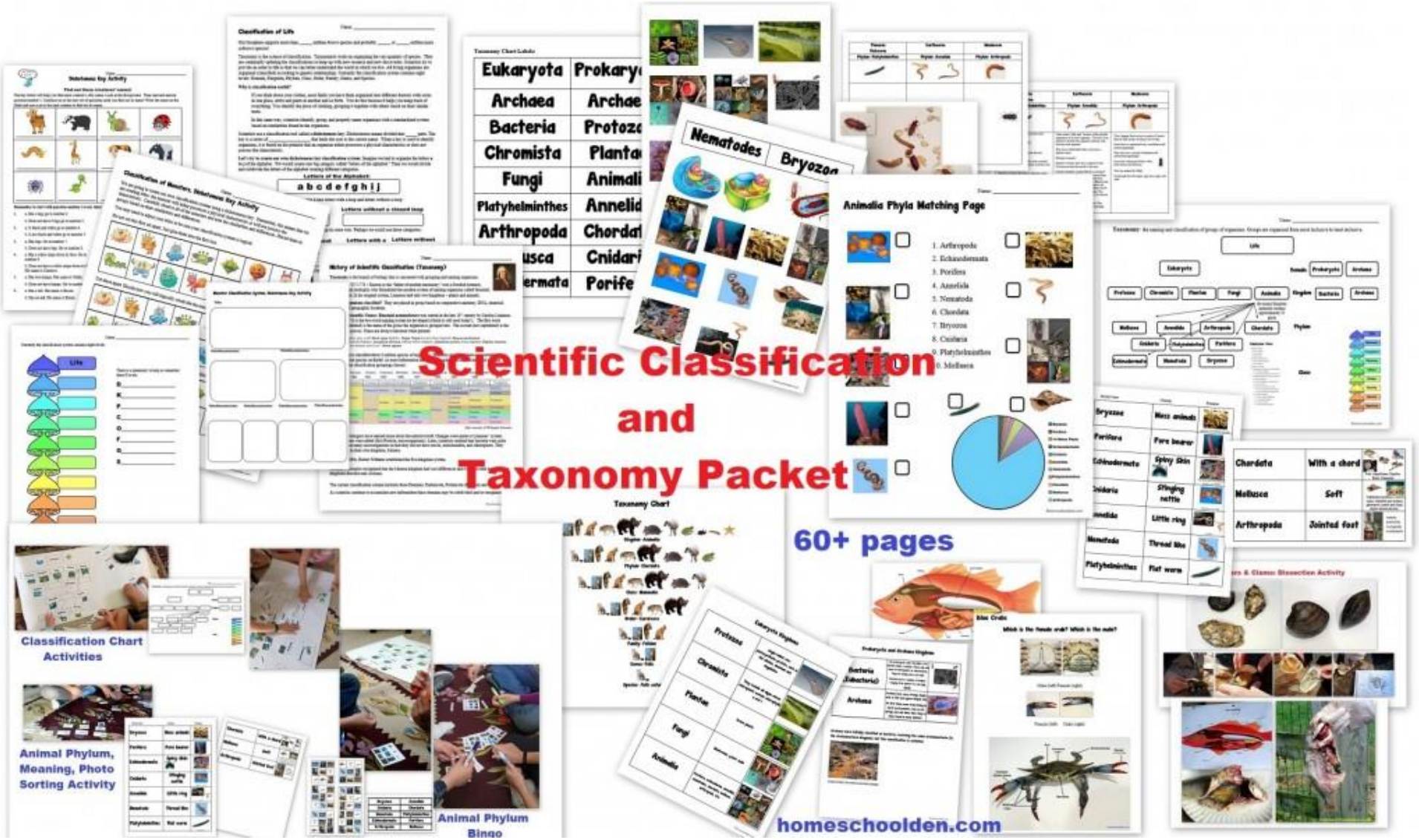
Scientific Classification

&

Taxonomy Unit

(60+ page packet)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