

NAME: \_\_\_\_\_

RUBRIC – PHYLOGENETICS ORGAN SYSTEM PROJECT:

# Introduction

INCLUDED SCORE	SECTION
A B C D F	• Title: Descriptive and CATCHY
A B C D F	• Introduce animals and what they have in common - 5 Animal characteristics: 1. Animals are eukaryotic. 2. Animals cells lack cell walls. 3. Animals are multicellular. 4. Animals are heterotrophs that ingest food. 5. HOX GENES – Responsible for Segmentation
A B C D F	• Introduce the function of organ systems
A B C D F	• Introduce the organ system of focus - Explain the main function of the organ system
A B C D F	• Introduce how evolution works ▪ Changes in organisms are created by mutations that change the DNA slightly ( <i>makes an easy transition to introducing the animal phyla</i> )
A B C D F	• Introduce the various animal phyla (so its an easy segue into each of the phyla)

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## EACH PHYLA – PORIFERA/SPONGES

<b>INCLUDED SCORE</b>	<b>SECTION</b>
A B C D F	• Introduce each phylas scientific and common names
A B C D F	• Include what key organisms are in each phyla
A B C D F	• Where they live and what they do (How they interact in/with their environment)
A B C D F	• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)
A B C D F	• Unique character of the phyla
A B C D F	Research on how the organ system works in that way and why.

# EACH PHYLA – Cnidaria/Jellies

INCLUDED SCORE	SECTION
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phylas scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (use the cladogram to identify)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>

# EACH PHYLA – Worms (flatworms, roundworms, segmented worms)

<b>INCLUDED SCORE</b>	<b>SECTION</b>
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phyla's scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (how they interact in/with their environment)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>

# EACH PHYLA – Molluscs

INCLUDED SCORE	SECTION
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phylas scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (how they interact in/with their environment)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>

## EACH PHYLA – Arthropods

INCLUDED SCORE	SECTION
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phylas scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (how they interact in/with their environment)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>

# EACH PHYLA – Echinoderms (sea stars)

INCLUDED SCORE	SECTION
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phylas scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (how they interact in/with their environment)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>

## EACH PHYLA – Chordates

INCLUDED SCORE	SECTION
A B C D F	<ul style="list-style-type: none"> <li>• Introduce each phylas scientific and common names</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Include what key organisms are in each phyla</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Where they live and what they do (How they interact in/with their environment)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• The key characters for each phyla (Use the cladogram to identify: Ex – symmetry, tissue...)</li> </ul>
A B C D F	<ul style="list-style-type: none"> <li>• Unique character of the phyla</li> </ul>
A B C D F	<p>Research on how the organ system works in that way and why.</p>



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## Conclusion Rubric

<b>INCLUDED SCORE</b>	<b>SECTION</b>
A B C D F	<ul style="list-style-type: none"><li>• Brief overview of organ system Function (why have it) Key organs</li></ul>
A B C D F	<ul style="list-style-type: none"><li>• Summary of changes/evolution of organ system</li></ul>
A B C D F	<ul style="list-style-type: none"><li>• Explain that evolution happens in small steps</li></ul>
A B C D F	<ul style="list-style-type: none"><li>• Changes in organisms are created by mutations that change the DNA slightly</li></ul>
A B C D F	<ul style="list-style-type: none"><li>• Importance of organ system to all animals Why evolve this system</li></ul>