

For the upcoming exploration of invertebrate phyla, you will creating a series of mini-projects. The mini-projects are each scored out of 10 and you cannot repeat the same type of project for subsequent phyla. Use the table below to keep track of your options (there will be one “style” that you will not use at all)

| <div></div> <div>Phylum</div> | Poster: Movie, Stat Card, Informational Flip | A Day in the Life/Diary/Journal | Craigslist Ad: Personals/BST: Niche | Worksheet + Answer Key: Crossword, Fact or Fiction, Mindmap | MIA/Wanted: Dead or Alive | Photo collage | Interview: Dialogue, Script | Childrens Story | Song Lyrics |
|-------------------------------|---|---------------------------------|--|---|---------------------------|---------------|-----------------------------|-----------------|-------------|
| Porifera | | | | | | | | | |
| Cnidaria/Ctenophora | | | | | | | | | |
| Platyhelminthes | | | | | | | | | |
| Nematoda | | | | | | | | | |
| Annelida | | | | | | | | | |
| Mollusca | | | | | | | | | |
| Echinodermata | | | | | | | | | |
| Arthropoda | | | | | | | | | |

Invertebrate Mini-Projects Criteria Table of Contents

This booklet is to be handed in with each of your mini-projects along the course of studying invertebrates. A digital copy can be found on the website should you require viewing the criteria while the booklet is in my possession.

Unless specified, the content for the projects should focus on the characteristics/attributes used to compare across phyla (The big invertebrate comparison grid sheet you’ve been filling out). Each mini-project will be scored out of 10.

| Project Type | Page |
|---|------|
| Poster: Movie, A Stat Card , Interactive Informational | 2 |
| A Day in the Life/Diary/Journal | 2 |
| Craigslist Ad: Personals/BST: Niche | 2 |
| Worksheet + Answer Key: Crossword, Fact or Fiction, Mindmap | 3 |
| Wanted: Dead or Alive | 3 |
| Photo collage | 3 |
| Interview: Dialogue, Script | 4 |
| Story/Cartoon | 4 |
| Poem/Song Lyrics | 4 |

Poster:

You will construct a horror themed movie poster (think Nightmare of Elm Street, Creature from the Black Lagoon, etc.), or a stat card (think Pokemon or Hearthstone or Magik, etc) or an interactive informational poster (flip layers to reveal layers). The poster need be at least on a 8.5” x 14” Legal sized sheet of paper (provided when requested)

Your poster should show the external and internal anatomy of your organism, as well as describe the functions of each. Each significant structure must be clearly labelled and well as described in terms of its function.

| Criteria | 3 | 2 | 1 | 0 |
|------------------------|---|---|---|--|
| Structures Depicted | All major structures shown | Many major structures shown | Several major structures are missing | Many major structures are missing |
| Labelled | | All items are labelled clearly | Many items are labelled clearly | Few items are labelled, or are unclear/too small |
| Function of Structures | All major functions of structures are described | Many major structures are described | Several major structures are not described | Many major structures are not described |
| Attractiveness | | The poster is attractive in design, layout and neatness | The posters is acceptable, but lacks the polish/care in execution | The poster is distractingly messy |

A Day in the Life/Diary/Journal:

You will write from the perspective of an organism that belong to the phylum. The timespan covered will be your choosing (a day, a week, month, etc), but should detail activities, encounters, and events that the organism may experience. The written entry should be a page in length (2 if double spaced)

Your first “person” perspective prose should include aspects of the organism’s uniqueness, such as, but not limited to: characteristics, abilities, structures, habits, behaviours. You will need to encompass at least 9 of these items in a creative means.

| Criteria | Creatively included |
|---|---------------------|
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| Overall presentation/cohesiveness/believability | |

Craigslist Ad: Personals/BST: Niche

You will produce a collection of Craigslist/classified style ads (perhaps an excerpt from a newspaper or Craigslist page). Each ad individually is looking to buy/sell or trade for a particular niche component that your organism requires. Additionally you are to generate 1 personals ads (looking for love, long walks on beaches, etc.) to go alongside the BST ads.

Each ad needs some creative reasoning to go along with it (why the organism is wanting it, selling it, trading for it). Similarly the personal ad should include details of what the organism is seeking, what the organism has to offer (accomplishments, special talents) and a selfie picture.

| Criteria | BST ad 1 | BST ad 2 | BST ad 3 | BST ad 4 | BST ad 5 |
|---------------------------------------|--------------|------------|--|----------|--|
| Included with reasoning | 1 | 1 | 1 | 1 | 1 |
| Absent | 0 | 0 | 0 | 0 | 0 |
| Personal Ad | 3 | 2 | 1 | | 0 |
| • Descriptive and accurate highlights | Includes 4-3 | Includes 2 | Includes less than 2 | | Facts are absent |
| • Selfie | | | Selfie is present | | Selfie is absent |
| Cohesiveness | | | The entire page/collection is/are believable | | The entire page/collection is disjointed |

Worksheet:

You will create a worksheet that can be used in class along with a marking guide and/or key with the appropriate answers. The assignment when used needs to be scored out of 15-20. The style of the worksheet is of your choosing (crossword, fact or fiction questionnaire, mindmap template), but might clearly indicate how the marks are being assigned. The worksheet requires a mixture of basic content and deeper content to provide a balance of challenge. Finally try to be creative to make the worksheet “fun”.

| Criteria | 2 | 1 | 0 |
|-------------------------|--|--|---|
| Instructions and Polish | | Instructions are clear and worksheet is free of errors | Absent/unclear/errors |
| Basic content | Many basic content are addressed | Few basic content are addressed | Absent |
| In depth content | Many in depth content are addressed | Few in depth content are addressed | Absent |
| Answer Key/Guide | | Provided | Not provided |
| Accurate | Error-free | Mostly correct, but an error is present | Absent/incorrect answers impact its usefulness |
| “Fun” creativity | I know it’s work, but I want to do this worksheet! | Some entertaining aspects were employed | The worksheet is plain (questions and spaces/fill in the blank) |

Wanted: Dead or Alive or Missing in Action

You are to create a Wanted/MIA poster for a representative organism from your phylum. This can be a “good” or “bad” themed poster (ie: Missing/Alive or Dead). The name (common and scientific), physical stats (size, description) and a hand drawn sketch need to be provided. The poster needs to clearly indicate the reasons for the wanted status. A mark will be given for the organization/layout and cohesiveness of the overall poster.

| Criteria | 2 | 1 | 0 |
|-------------------------------------|--|--|-----------|
| Name | Both common and scientific names present | Either common or scientific name present | Absent |
| Stats for ID/recognition | Includes many stats to ID | Includes some useful stats, and/or other features that are useless for recognition | Absent |
| Sketch | Hand drawn, well executed | Printed photograph/poorly executed | Absent |
| Reason for status | Clearly indicates significant reason for wanted poster | Simple reason for wanted poster and/or unclear | Absent |
| Creativity/Additional relevant info | | Other creative/helpful info to help catch organism | Absent |
| Overall layout/cohesiveness | | Well organized and harmonious | Scattered |

Photo Collage

You are to produce a photo collage of representative organisms from your phylum. It is recommended that this be done digitally to ease layout construction and gain access to more images. The collage needs a title that clearly indicates the phylum being examined. The collage in the end needs to cover half of a 8.5” x 11” sheet (letter size), with no white space apart from the margins and to border the title. The images used should be organized somewhat according to the class (Taxonomy) and images should be no larger than 5cm diameter. Finally a bibliography needs to be provided for the images gathered (just the source image address and date accessed, no google in the http).

| Criteria | 2 | 1 | 0 |
|---------------------|--|---|---|
| Title | Appropriately balanced with images | Lost amongst or overwhelms the images | Absent |
| Variety | Organisms sampled cover the spectrum of the phylum | Images dwell on a select grouping within phylum | Images seemingly of the same organisms/repetition |
| Accuracy | All organisms from the indicated | One organism not from this phylum | Few organisms from other phyla |
| White space | | Absent | Visible |
| Image size | | Appropriate size | Images larger than 5cm |
| Organization/Layout | | Organization detectable | Organization undetectable |
| Bibliography | | Present | Absent |

Job Interview:

Choose an organism from your phylum and conduct a job interview. The organism is applying to work in the ecosystem, ideally its natural niche. You will format the project with proper dialogue/script such that the final outcome can easily be picked up and used for a play/skit that encompasses the interview from beginning to end. Interviewer dialogue should incorporate pertinent questions to the ecological “role” needed to be filled. The organism’s dialogue to the interview questions need to address its suitability for the job in terms of its life functions (feeding, respiration, transport, excretion, etc.).

| Criteria | 2 | 1 | 0 |
|-------------------------|----------------------------------|---|--|
| Life function 1 | | Present | Absent |
| Life function 2 | | Present | Absent |
| Life function 3 | | Present | Absent |
| Life function 4 | | Present | Absent |
| Life function 5 | | Present | Absent |
| Life function 6 | | Present | Absent |
| Life functions accuracy | Information is entirely accurate | Information is mostly correct; contains a few errors | Information is mostly incorrect |
| Organization/Layout | | Done in script format | Not done in script format |
| Creativity | | The script is a believable transcript of an interview | The script follows too closely to a generic worksheet question/answers |

Children’s Story

You will create a children’s story where your organism is the central character. The story will address the life functions of your organism with the aid of visuals appropriate for a younger audience. It should be presented in a book format (folded 8.5” x 11” sheets of letter paper) with a cover and title.

| Criteria | 2 | 1 | 0 |
|-----------------|--|---|-------------|
| Cover and Title | | Present | Absent |
| Life function 1 | | Present and accurate | Absent |
| Life function 2 | | Present and accurate | Absent |
| Life function 3 | | Present and accurate | Absent |
| Life function 4 | | Present and accurate | Absent |
| Life function 5 | | Present and accurate | Absent |
| Life function 6 | | Present and accurate | Absent |
| Visuals | Visuals are colourful and contribute to the work | Visuals included, but not coloured or do not add to the story | Absent |
| Presentation | | The work overall resembles a children’s book | It does not |

Song Lyrics

You will take an existing song and replace the lyrics with news ones in tribute to your organism. The lyrics need to address physical features and life functions of the organism, but all the while flowing from verse to verse.

The original song name and artist name needs to be provided to accompany the new lyrics.

| Criteria | 2 | 1 | 0 |
|---|--------------------------------------|--------------------------------------|-----------------------------------|
| Incorporation of life functions (x2 weighting) | Many life functions are mentioned | Few life functions are mentioned | Absent |
| Incorporation of physical features (x2 weighting) | Many physical features are mentioned | Few physical features are mentioned | Absent |
| Flow | | The song flows from idea to the next | Disjointed; the song is scattered |
| Original song name and artist | | Provided | Not provided |

Choose your own

You’ve made it this far! If you can think of another mini-project that you would like to do, propose a marking rubric (10 marks) and run it by me for approval.