

Libbie Hyman

Scientists and Inventors



twinkl



Aim

- To understand Libbie Hyman's work about classification.

Success Criteria

- I can describe Libbie Hyman's life and her work on invertebrates.
- I can classify invertebrates.
- I can describe the characteristics of invertebrates.

Vertebrates and Invertebrates

All animals can be classified as either vertebrates or invertebrates. What is the difference?



Vertebrates and Invertebrates

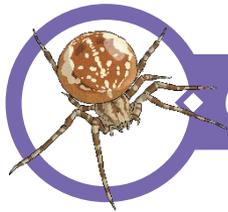
◆ The difference between the two types of animals is that invertebrates do not have a backbone or spinal column.

◆ Note down as many different vertebrates and invertebrates that you can think of.

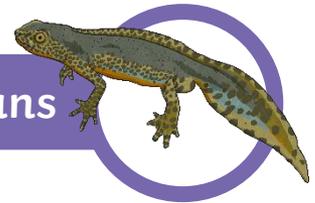


Vertebrates and Invertebrates

Look at these Phyla and Classes (scientific names for animals grouped because of similar characteristics). Which of them are vertebrates and which are invertebrates? Research the different Phyla and Classes below to find out if you were correct.

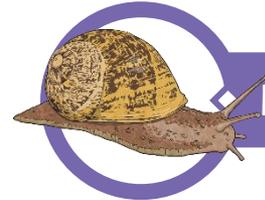
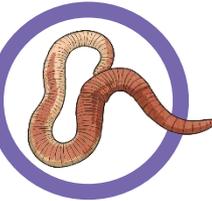


◆ Class: Arachnids

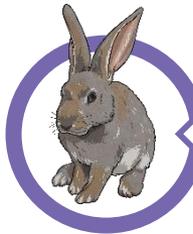


◆ Class: Amphibians

◆ Phylum: Annelids

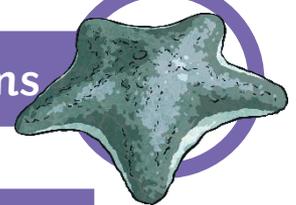


◆ Phylum: Molluscs

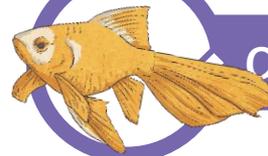


◆ Class: Mammals

◆ Phylum: Echinoderms



◆ Class: Birds



◆ Class: Fish

◆ Class: Insects



◆ Class: Reptiles



◆ Phylum: Crustaceans

Libbie Hyman

Libbie Hyman was a zoologist who researched vertebrates and invertebrates. She published highly detailed volumes of work about the characteristics and the taxonomy of invertebrates.

Her work is widely regarded as an incredible achievement and is considered to be extremely important and useful for the study of different animals.

She described the anatomy and characteristics of different vertebrates and invertebrates and explained how they should be classified.

The books that she wrote are still used by scientists today.



Mini Task - Libbie Hyman Fact File

Research Libbie Hyman's life and her scientific achievements. Create a short fact file about her.

You may want to consider:

- Where she was born/grew up
- When she was born/died
- Who she lived with when she was young
- Who her parents were
- What inspired her to become a scientist
- What scientific discoveries she made
- What university she went to
- What subject she studied



The Invertebrates

(The name of her book)

◆ Hyman's most important achievement was her publication of her six-volume work on the classification of invertebrates.

◆ The Invertebrates was published between 1940 and 1967. Hyman researched invertebrates from other scientists' papers and by analysing specimens of different animals.



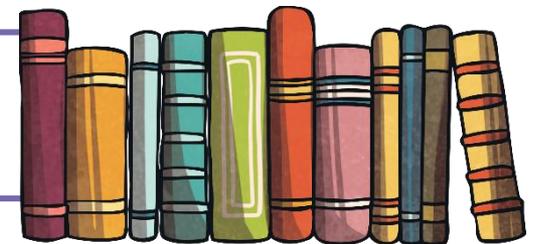
The Invertebrates

She attended art classes so that she could illustrate her own work.

Her accomplishments are considered so great because she conducted this incredible work by herself, without a team of researchers or any partners.

She had no assistant or secretary, and typed every word of her books. This was very unusual and makes her achievements even more special.

Hyman's books are recognised as an authority on the anatomy and classification of invertebrates.



Invertebrate Information Page

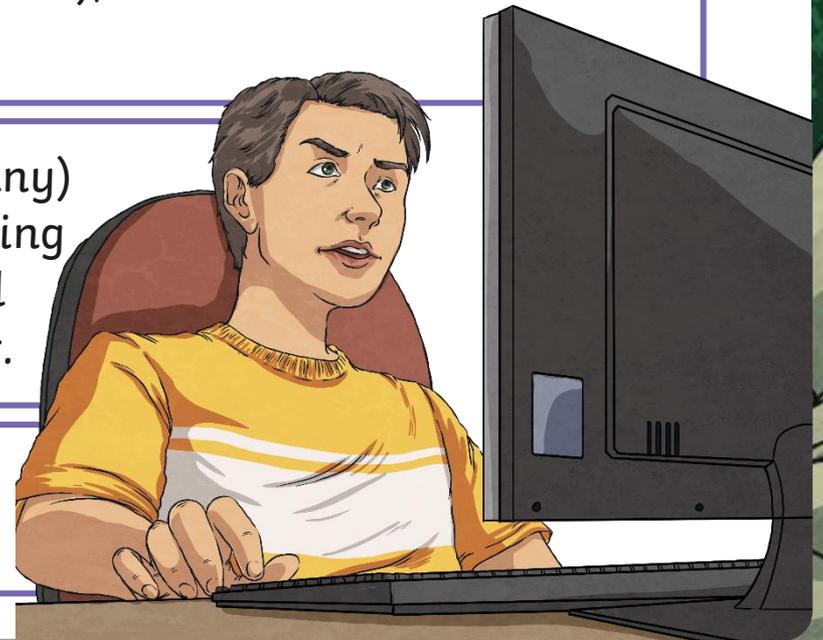
Your challenge today is to research an invertebrate and create an information page that Libbie Hyman could have included in her books.

Use the 'Invertebrate Information Page' worksheet (next slide) as a template to present your research.

Choose an invertebrate from the list (slide 12), or choose another invertebrate that you are interested in.

Use the internet and books (if you have any) to find out about the invertebrate, including information on its classification, physical characteristics, its habitat and behaviour.

Include an illustration of the invertebrate.



Use worksheet 1:
Invertebrate
Information Page
as a template to
present your
research.

◆ **Name of invertebrate:**

◆ **Illustration**

◆ **Habitat and Behaviour:**

Where does the invertebrate live?

What does it eat?

Does anything eat it?

◆ **How is this invertebrate classified?**

Domain: _____

Kingdom: _____

Phylum: _____

Class: _____

Order: _____

Family: _____

Genus: _____

Species: _____

◆ **Physical Characteristics:**

What does the invertebrate look like?

What features does it have?

Invertebrate Information Page

Choose from this list of invertebrates, or research an invertebrate of your own choice.

- ◆ seven-spot ladybird
- ◆ peacock butterfly
- ◆ lion's mane jellyfish
- ◆ emperor scorpion
- ◆ Japanese spider crab
- ◆ common octopus
- ◆ purple sunstar
- ◆ common earthworm

