

Scientific Literacy

Reading and Writing in Science

Starter - Collect a Mini Whiteboard and pen

Make as many words as you can from the letters in.....

Medicinal chemistry

Solutions: There are 6006 words!

<https://wordmaker.info/how-many/medicinalchemistry.html>

What is Scientific Literacy

In science, disciplinary literacy involves understanding how to interpret scientific texts, such as research articles, lab reports, and technical manuals. This includes the ability to analyse data, comprehend complex diagrams and charts, and evaluate evidence.

Scientists often use precise language, specialised vocabulary, and logical structures to convey their findings and arguments, which requires readers to develop a nuanced understanding of these conventions.

Writing in science also demands a particular style, focused on clarity, precision, and objectivity.

Scientists must be able to formulate hypotheses, design experiments, and present results in a manner that is replicable and transparent. Communicating findings through various formats, such as academic papers, presentations, and posters, is also a key component of disciplinary literacy in science.

In these lessons we will concentrate on reading scientific text and writing in a scientific way

Preparation for reading

Getting familiar with the tricky words....

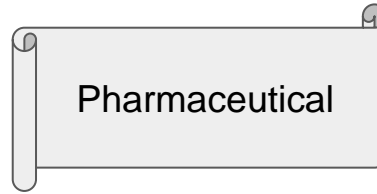
MWBs

Word Level

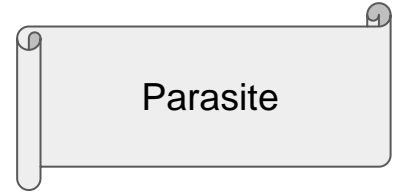
Some terms we will be using today



Pathogen



Pharmaceutical



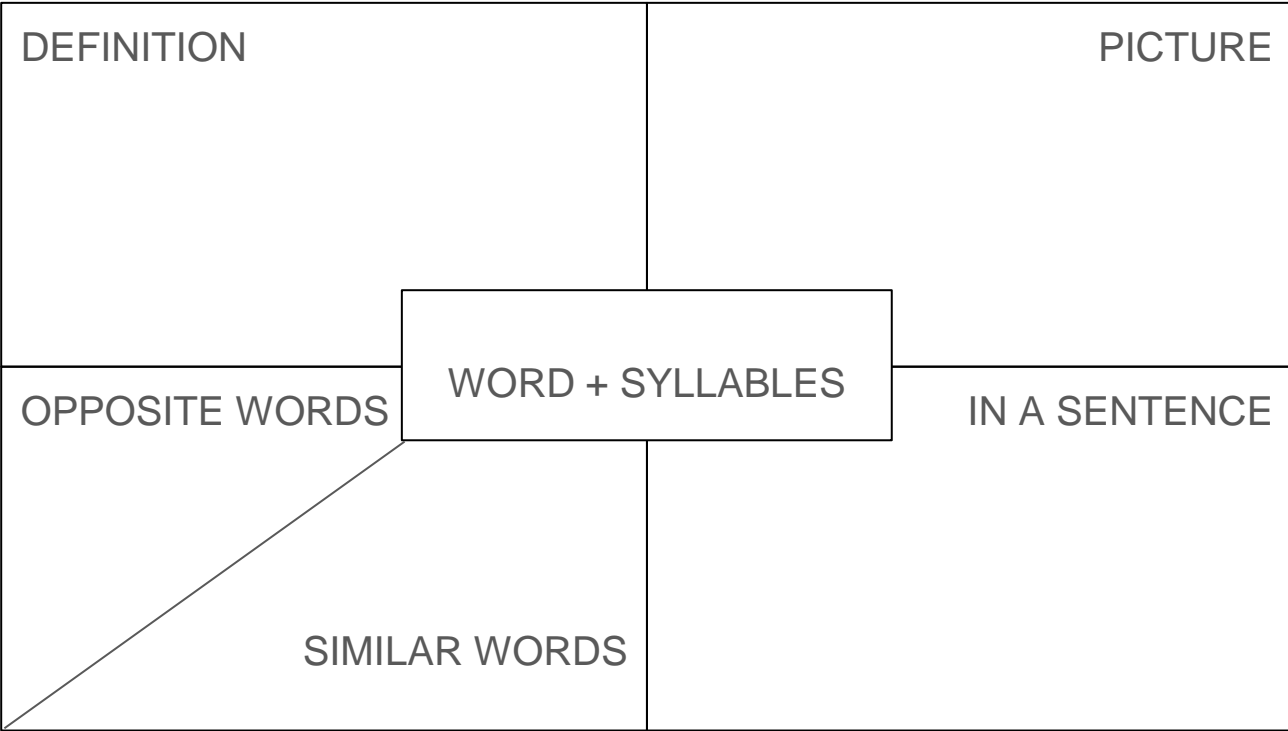
Parasite



Remedies

Choose a keyword and complete a Frayer model:

- Pathogen
- Parasite
- Pharmaceutical
- Remedies



Reading

You have been given a copy of the text.

1. **Scan the text.** This means to quickly read over it without fully taking in its content.
2. You are looking for the key words “PATHOGEN”, “PHARMACEUTICAL”, “PARASITE” and “REMEDY”.
3. Highlight or underline each time the word appears in the text.

1. **Read the text carefully and completely.**
2. Answer the comprehension questions.

Writing

Sentence Level

Because, but, so

Sentence
Sentence
something else
Sentence

... *because*

...

a reason

... *but*

...

something different, or

... *so*

...

what it

Tu Youyou is
inspiring to many...

because
but
so

Because, but, so

Sentence
Sentence
something else
Sentence

... *because*
... *but*
... *so*

... a reason
... something different, or
... what it

Tu Youyou faced challenges in her lifetime...

because
but
so

Because, but, so

Sentence
Sentence
something else
Sentence

... *because*

...

a reason

... *but*

...

something different, or

... *so*

...

what it

Scientists study
traditional
medicines...

because
but
so

Because, but, so

Sentence
Sentence
something else
Sentence

... *because*
... *but*
... *so*

... a reason
... something different, or
... what it

Tu Youyou is in the minority of Nobel Prize winners for science...

because
but
so

Paragraph Level

Link these words to produce a paragraph

artemisinin

drug testing

malaria

traditional medicine