

HSW Literacy

Reading and Writing in Science

Starter - Collect a MWB and pen

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

Sugar-Free Slushie

Solutions:

<https://wordmaker.info/how-many/sugarfreeslushie.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.

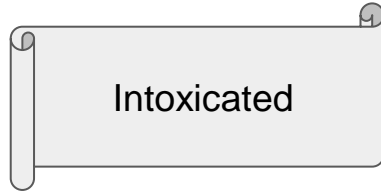
Scientists often use precise language, specialised vocabulary, and logical structures to convey their findings and arguments, which requires readers to develop a nuanced understanding of these conventions.

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

Some words we will be using today




Intoxicated



Additive



Glycerol



Side-effect

Preparation for reading

Getting familiar with the tricky words....

MWBs

Word Level

Glycerol

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graph TD; A[Glycerol] --- B[Have you seen this word before? When? Are there any clues about what it means?]; A --- C[How many syllables are there? What are they?]; A --- D[Say the word out loud]; A --- E[Try and use it in a simple sentence];
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- Have you seen this word before? When?
- Are there any clues about what it means?

- How many syllables are there? What are they?

- Say the word out loud

- Try and use it in a simple sentence

- Have you seen this word before? When?
- Are there any clues about what it means?

- How many syllables are there? What are they?

Intoxicated

- Say the word out loud

- Try and use it in a simple sentence

- Have you seen this word before? When?
- Are there any clues about what it means?

- How many syllables are there? What are they?

Side Effect

- Say the word out loud

- Try and use it in a simple sentence

- Have you seen this word before? When?
- Are there any clues about what it means?

- How many syllables are there? What are they?

Additive

- Say the word out loud

- Try and use it in a simple sentence

Reading - Why Are Experts Worried About Sugar-Free Slushies?

Read Text 1

Write any words you are unsure of on your MWB
Answer the questions about the article

Reading/comprehension -

Re-read/scan through the article to help you answer
the questions

Writing

Sentence Level

Complete the sentences on your MWB

Because, but, so

Sentence

Sentence

something else

Sentence

... *because*

... *but*

... *so*

...

...

a reason

something different, or

...

what it

Glycerol can still be
used in drinks...

Because...
But...
So...

Because, but, so

Sentence

Sentence

something else

Sentence

... *because*

... *but*

... *so*

...

...

a reason

something different, or

...

what it

Some experts are
worried about glycerol
in food...

Because...
But...
So...

Because, but, so

Sentence

Sentence

something else

Sentence

... *because*

... *but*

... *so*

...

...

a reason

something different, or

...

what it

Sugar-free slushies
might not be healthy

Because...
But...
So...

Because, but, so

Sentence

Sentence

something else

Sentence

... *because*

... *but*

... *so*

...

...

a reason

something different, or

...

what it

Additives are used in
food

Because...

But...

So...

Paragraph Level

Link these words to make 3 sentences

headaches

recovered

Glycerol

freezing

intoxication

sickness

side-effect

sweetner

additive

Comparative Writing

Compare (Evaluate the use of) sugar free and sugar based slushies.

	Positives (pros)	Negatives (cons)
Sugar based slushie		
Glycerol based slushie		

Any evaluation needs the final statement below.
Your opinion needs to be scientifically based.

I think that ... is better than ... because..