

The background features several green-toned illustrations: a DNA double helix with white and blue strands in the top left; a large green cell with a nucleus in the top right; a petri dish with green colonies in the bottom left; and a large green bacterium with flagella in the bottom right. The text is centered in a bold, green, sans-serif font.

How to Read Literature Review

NCState iGEM

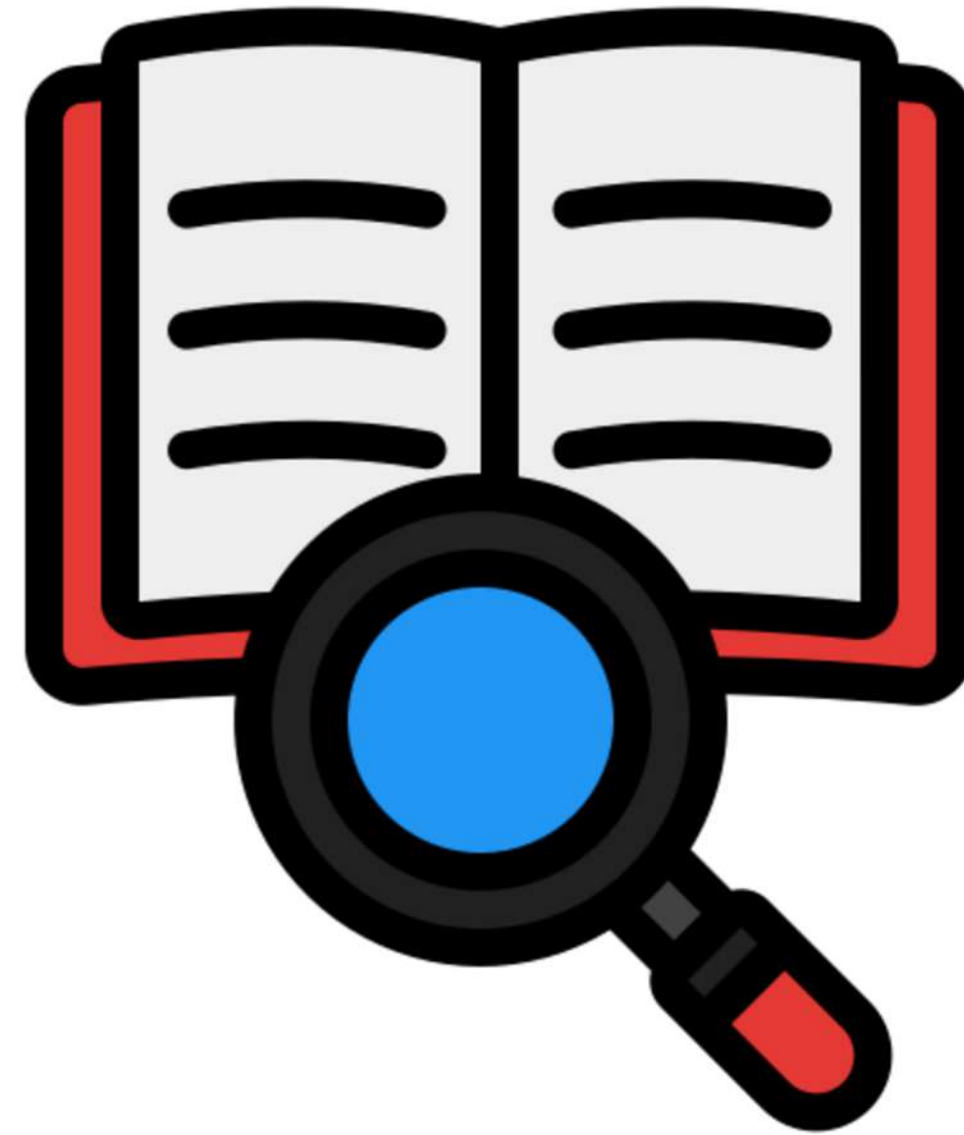
What is Literature Review

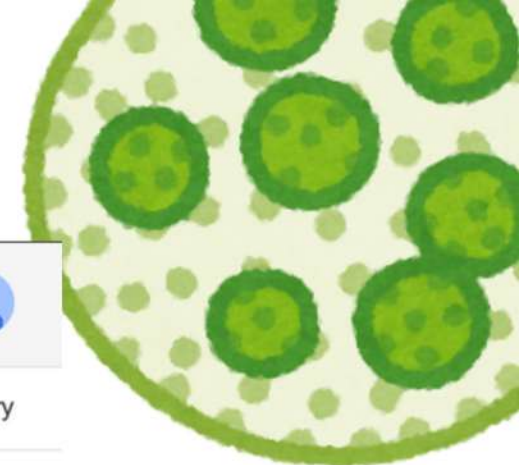
A literature review is important because it:

- 🔍 Summarizes and analyzes existing research from many studies
- 🧠 Helps you understand the big picture of a topic
- 🧩 Identifies what's been done and what's still missing

Where can you find Papers?

1. Google Scholar
2. ResearchRabbit
3. Pubmed





You can filter by year over here!

Any time
 Since 2025
Since 2024
 Since 2021
 Custom range...

Sort by relevance
 Sort by date

Any type
 Review articles

include patents
 include citations

Create alert

- [\[HTML\] CRISPR-Cas12a based aptasensor for sensitive and selective ATP detection](#) [\[HTML\] sciencedirect.com](#)

L Peng, J Zhou, [G Liu](#), L Yin, S Ren, S Man... - *Sensors and Actuators B ...*, 2020 - Elsevier
 ... **CRISPR-Cas** based **detection** platform opens up a new avenue for biosensing owing to ...
detection of adenosine triphosphate (ATP). In this sensor, we designed an **ATP-binding aptamer** ...
 ☆ Save  Cite Cited by 117 Related articles All 2 versions
- [\[HTML\] Accelerated CRISPR/Cas12a-based small molecule detection using bivalent aptamer](#) [\[HTML\] sciencedirect.com](#)

X Li, X Chen, M Mao, C Peng, Z Wang - *Biosensors and Bioelectronics*, 2022 - Elsevier
 ... the sensing target of **CRISPR/Cas** to small molecules via integrating a bivalent **aptamer** as a ...
 ... 5'-triphosphate (**ATP**) as a model molecule, we found that a bivalent **aptamer** we selected ...
 ☆ Save  Cite Cited by 44 Related articles All 5 versions
- [CRISPR-Cas12a-Based Aptasensor for Sensitive and Selective ATP Detection](#)

L Ma, Y Li, S Man - *CRISPR-Cas Methods: Volume 3*, 2025 - Springer
 ... structure, and functions, and it is arguably one of the most widely used **aptamers** [18,19,20]. ...
 biosensor mediated by **aptamer** for **detecting ATP**. We used an **ATP ssDNA aptamer** as a "...
 ☆ Save  Cite Related articles All 3 versions
- [\[HTML\] CRISPR-Cas12a-based efficient electrochemiluminescence biosensor for ATP detection](#) [\[HTML\] sciencedirect.com](#)

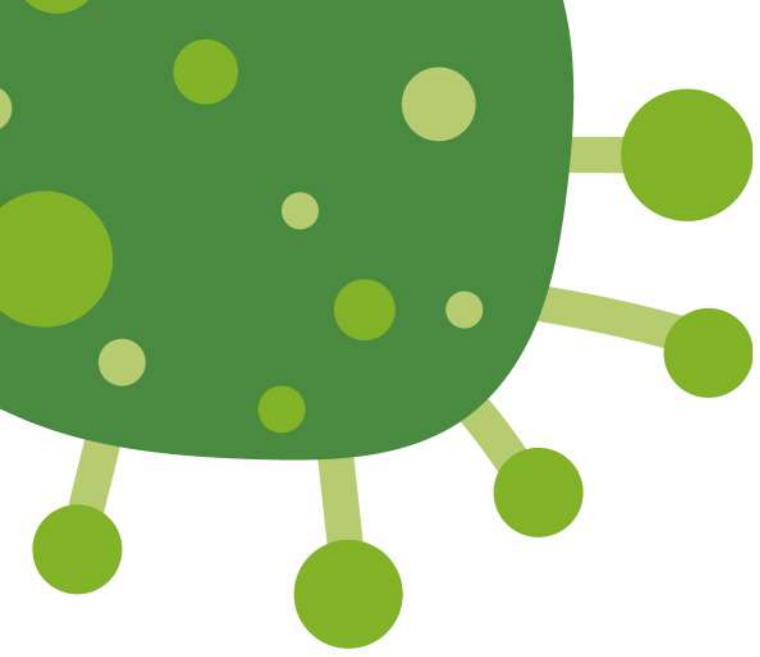
ZH Xu, ZY Zhao, H Wang, SM Wang, HY Chen... - *Analytica Chimica Acta*, 2021 - Elsevier
 ... **detection** limit of **ATP** was determined to be 0.48 nM under the optimal conditions. This work
 will expand the application of **CRISPR-Cas detection** ... M **ATP aptamer** to generate the **ATP** ...
 ☆ Save  Cite Cited by 33 Related articles All 5 versions
- [\[HTML\] Aptamer-based dual-enzyme, amplification-free biosensor integrating CRISPR-Cas12a and Exo III for sensitive detection of ATP](#) [\[HTML\] sciencedirect.com](#)

B Li, Y Huang, Z Zhu, M Zhong, G Li, J Liu - *Sensing and Bio-Sensing ...*, 2025 - Elsevier
 ... This biosensor employs **aptamer**-based specific recognition combined with a ... for **ATP**
detection. This sensor operates through an **aptamer** in a closed duplex structure, upon binding **ATP**...
 ☆ Save  Cite Related articles

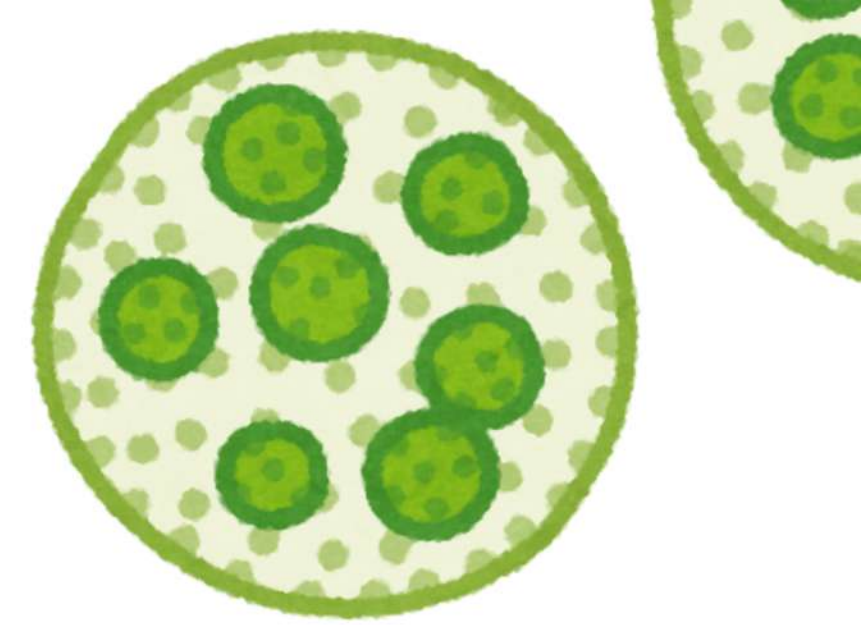
TIP:When you search try having specific keywords.

Aptamer
ATP
Crispr

Try combinations: synthetic biology and Insulin!



How to Read it?

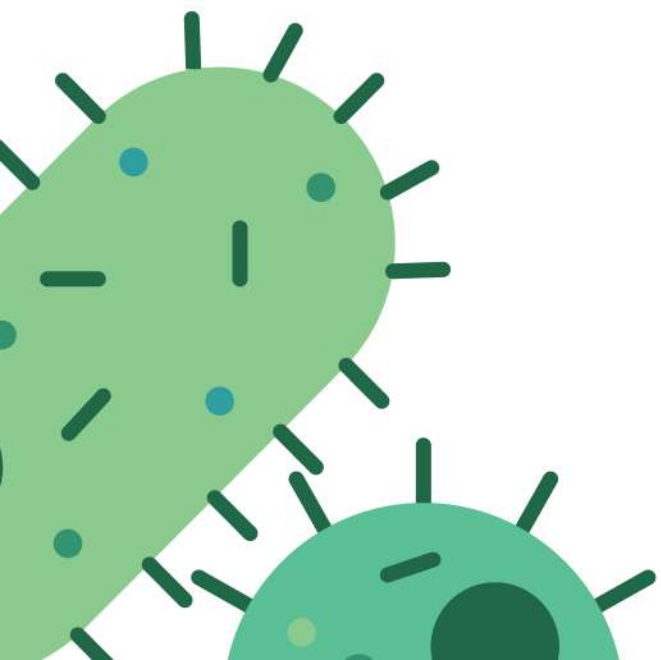


How to Read a Paper

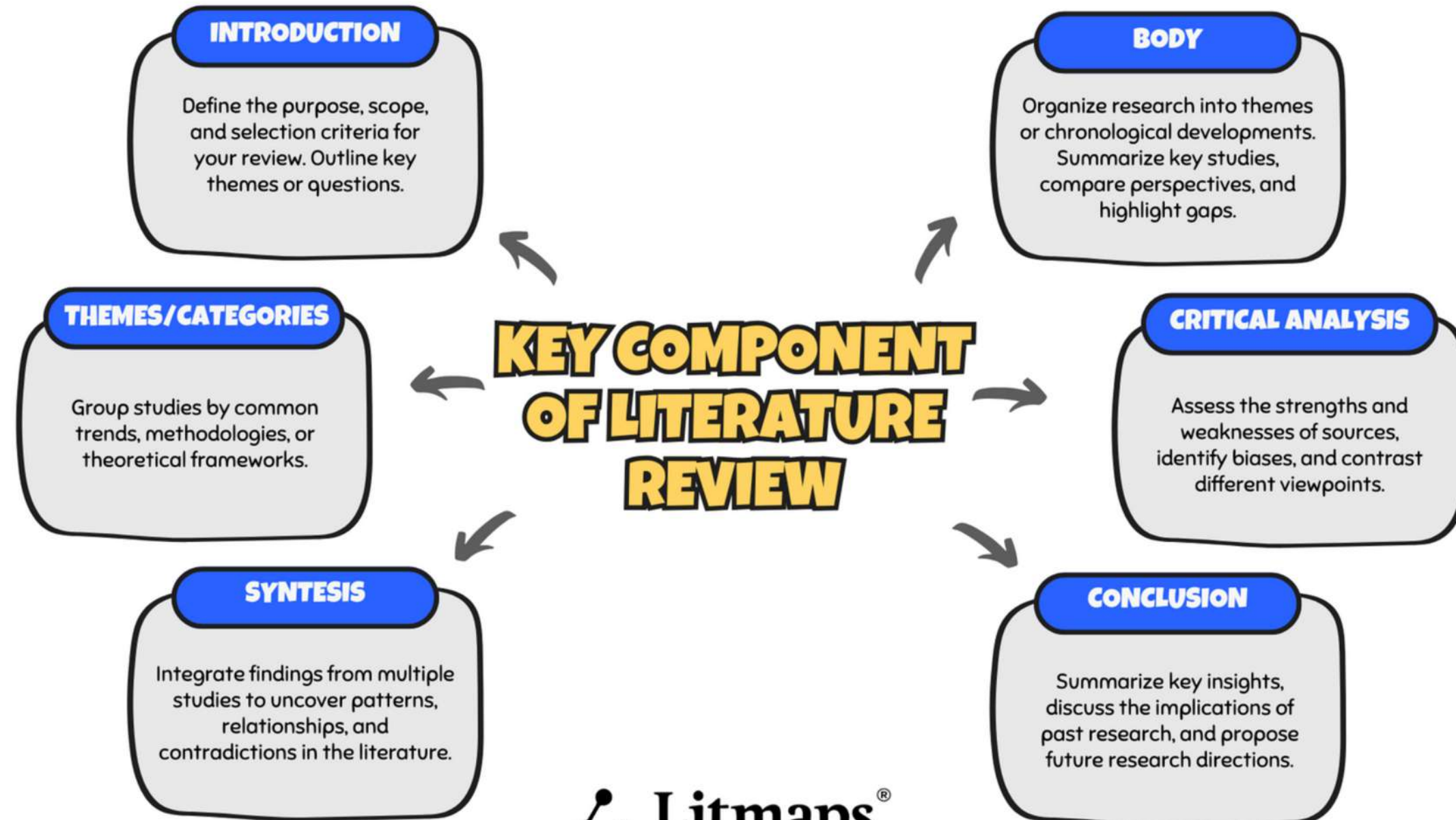
- Title & abstract → does it match your question?
- Figures & results → what did they find?
- Conclusion → main takeaway

Don't get stuck on every detail; focus on the big picture

Ask Questions!



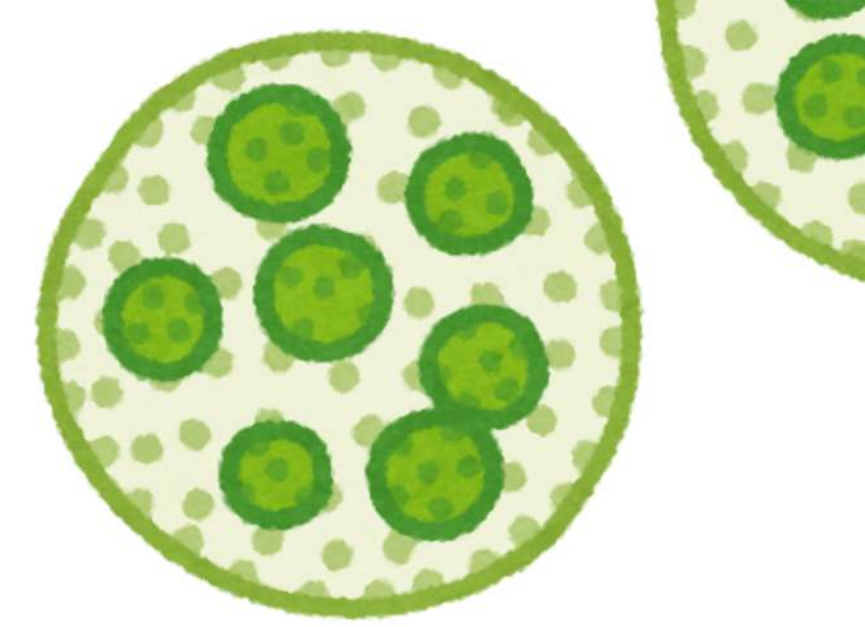
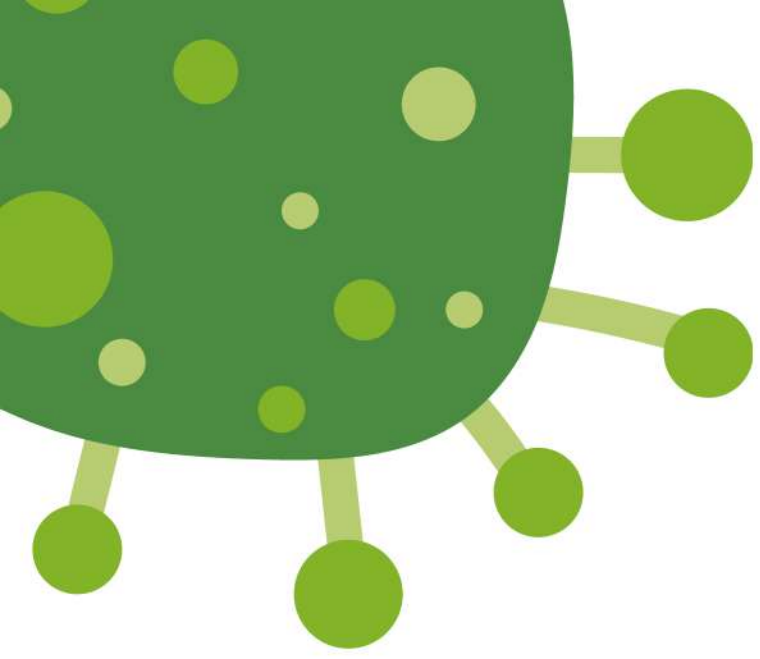
Analysis



 Litmaps®

Always cite your sources

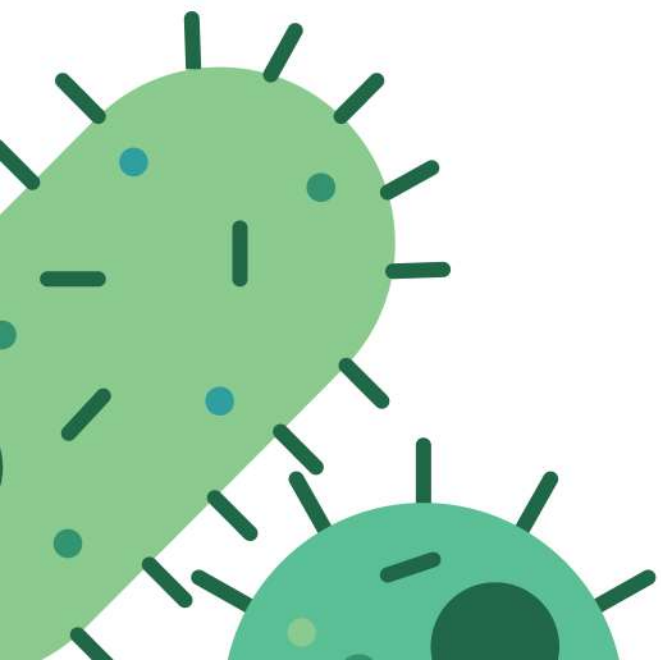
<https://www.litmaps.com/articles/what-is-a-literature-review>



Example:

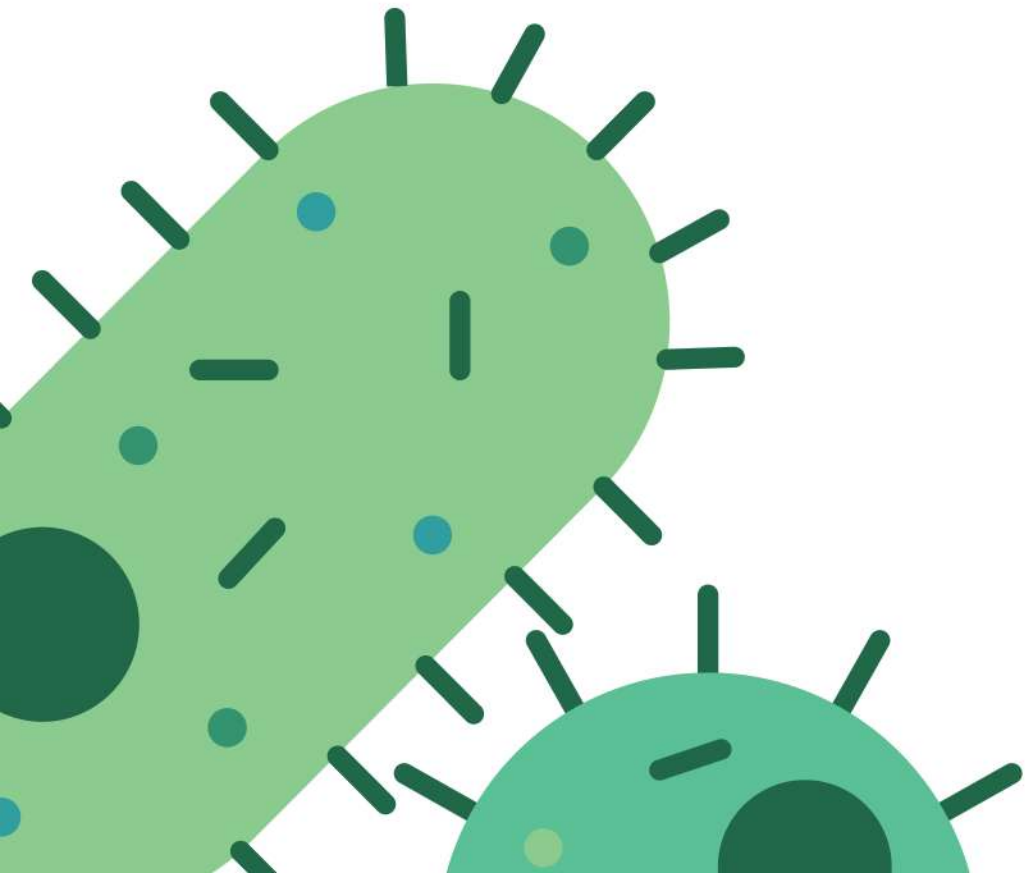
**Can Bacteria Degrade
Plastic?**

**What would you
consider?**



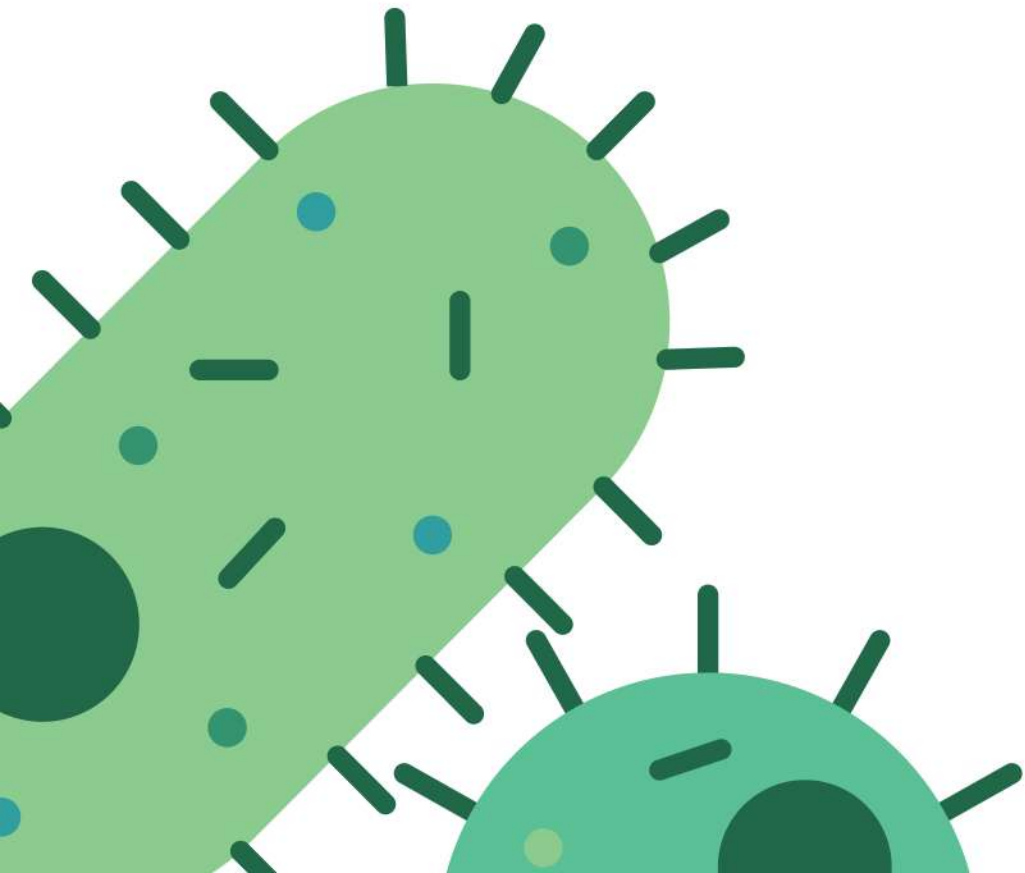
Idea Board

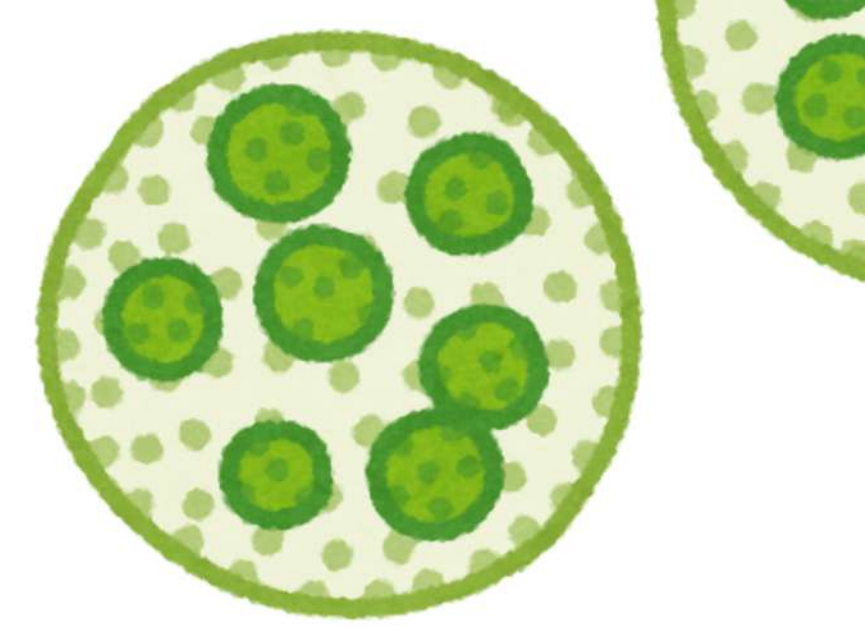
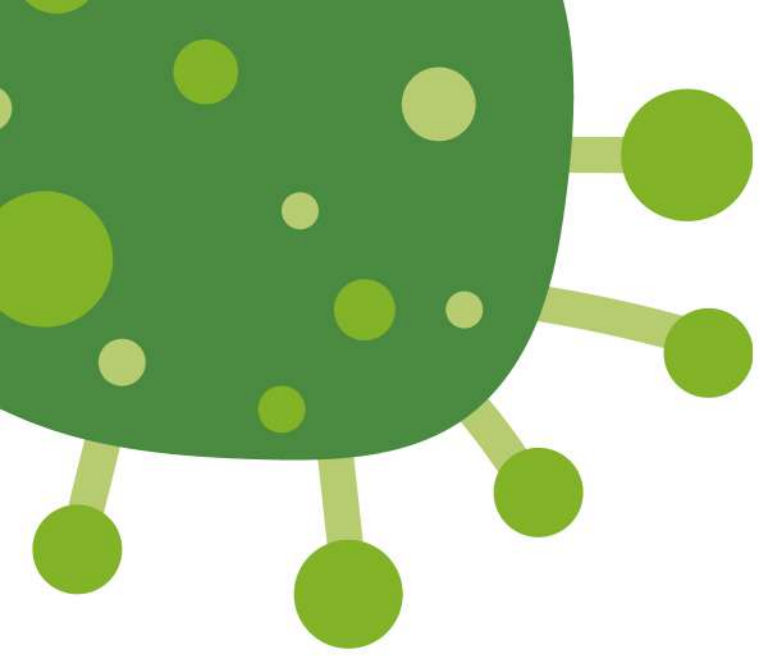
students can add sticky notes on their ideas over here



What did you find?

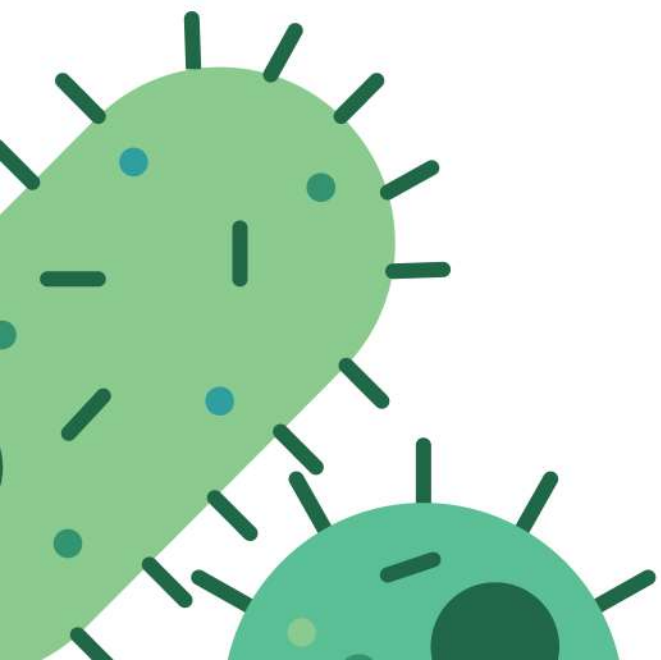
students can add their findings in this page

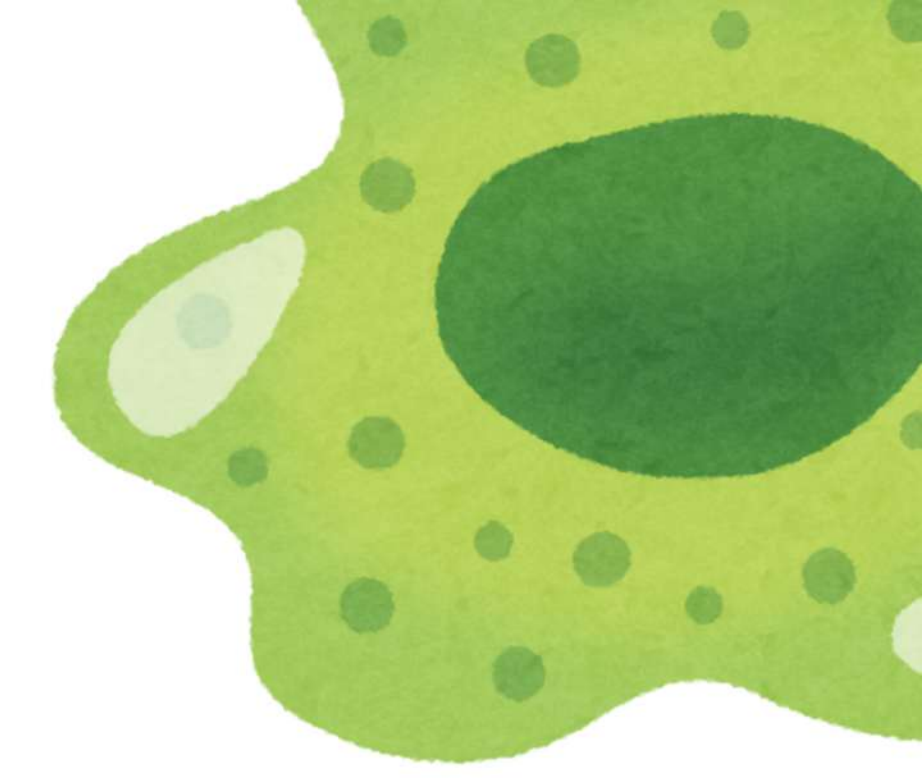
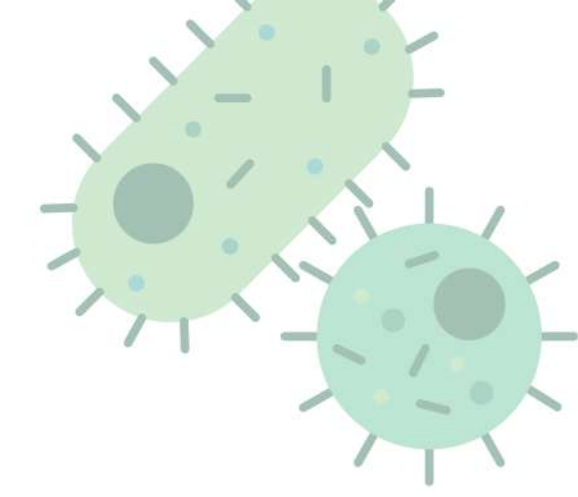




QnA Time

Any Question ?





**Thank
You**

