

SCIENCE ENGLISH

What is it?



Why is Science English important?

In the science world, English is the universal language (共通語).

International research conferences (国際研究会) are in English, as well as many research papers. If you want to be a researcher in today's global society, knowing English is important!

It can help you study-abroad. (留学)

If you want to study science at a foreign university, knowing English will be helpful.

You can help foreign patients! (外国人の患者).

If you work in a hospital or clinic, you can help foreign patients easier.






There are many fields (分野) in Science...

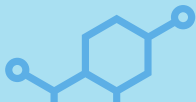


Let's think of them
together in English!



Why do you like Science?

- 
- ① Fill in the worksheet for a few minutes.
 - ② Share with your partner!
- 
- 





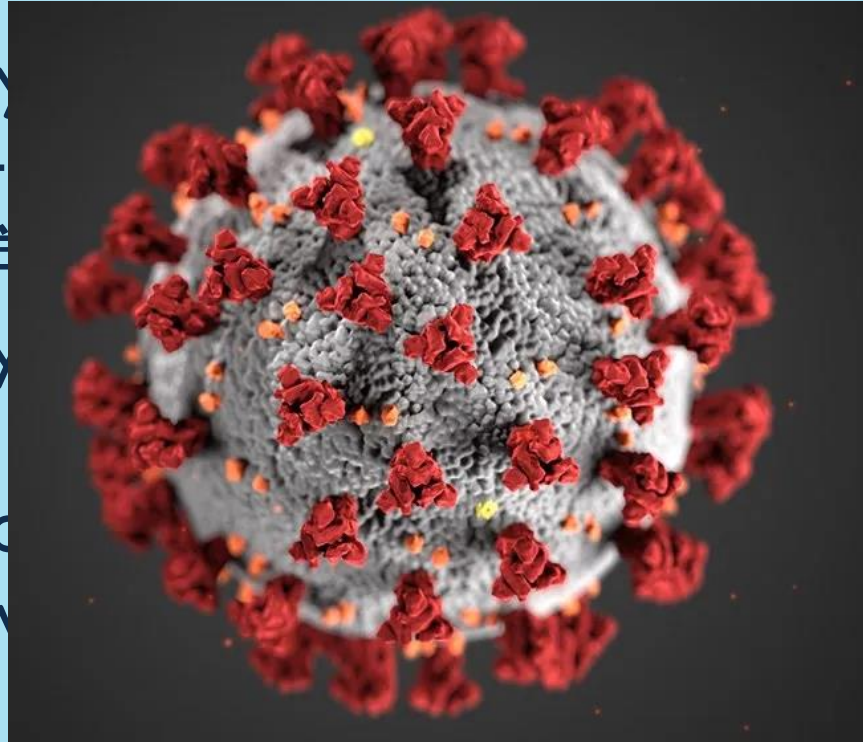
. What is your favorite scientific field?

. Why do you like science?

What did I study?

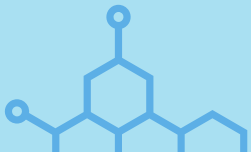
In university
(細胞・分子
(遺伝学
biochemistry

My favorite
coronav



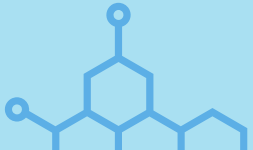
ular Biology.
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幾化学),
gy (微生物学).

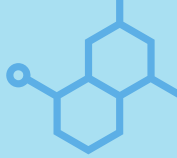
as about
h papers



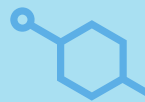
Why do I like Science/Biology? ✨ ✨

I feel that Biology is a good mix of humanities (文系) and science (理系). Biology has a lot of difficult concepts (概念), but they are directly related to life and humans. I love to learn why things happen!





**So...how do we
study
science?**



觀察

Observation
/ question

質問

Report
conclusions

Research
topic area

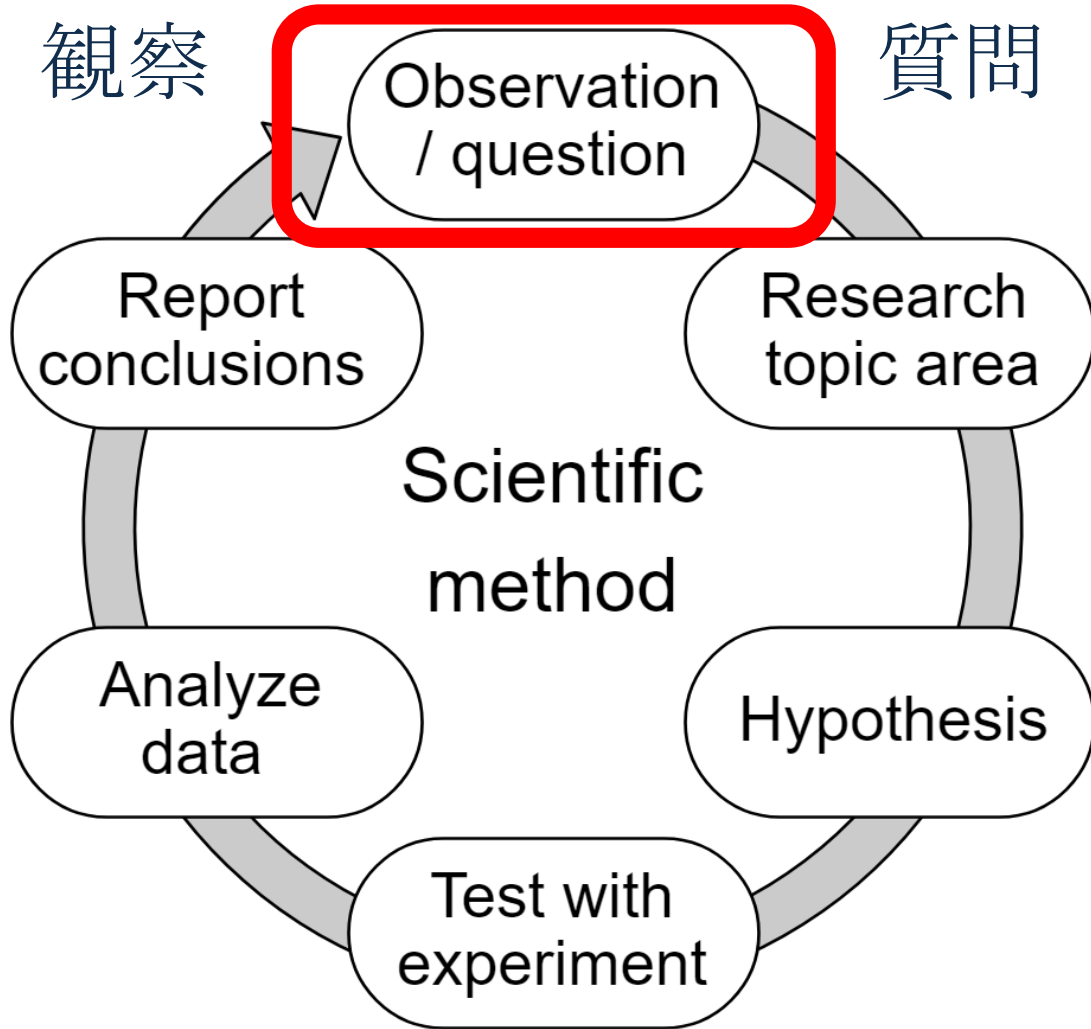
Scientific
method

Analyze
data

Hypothesis

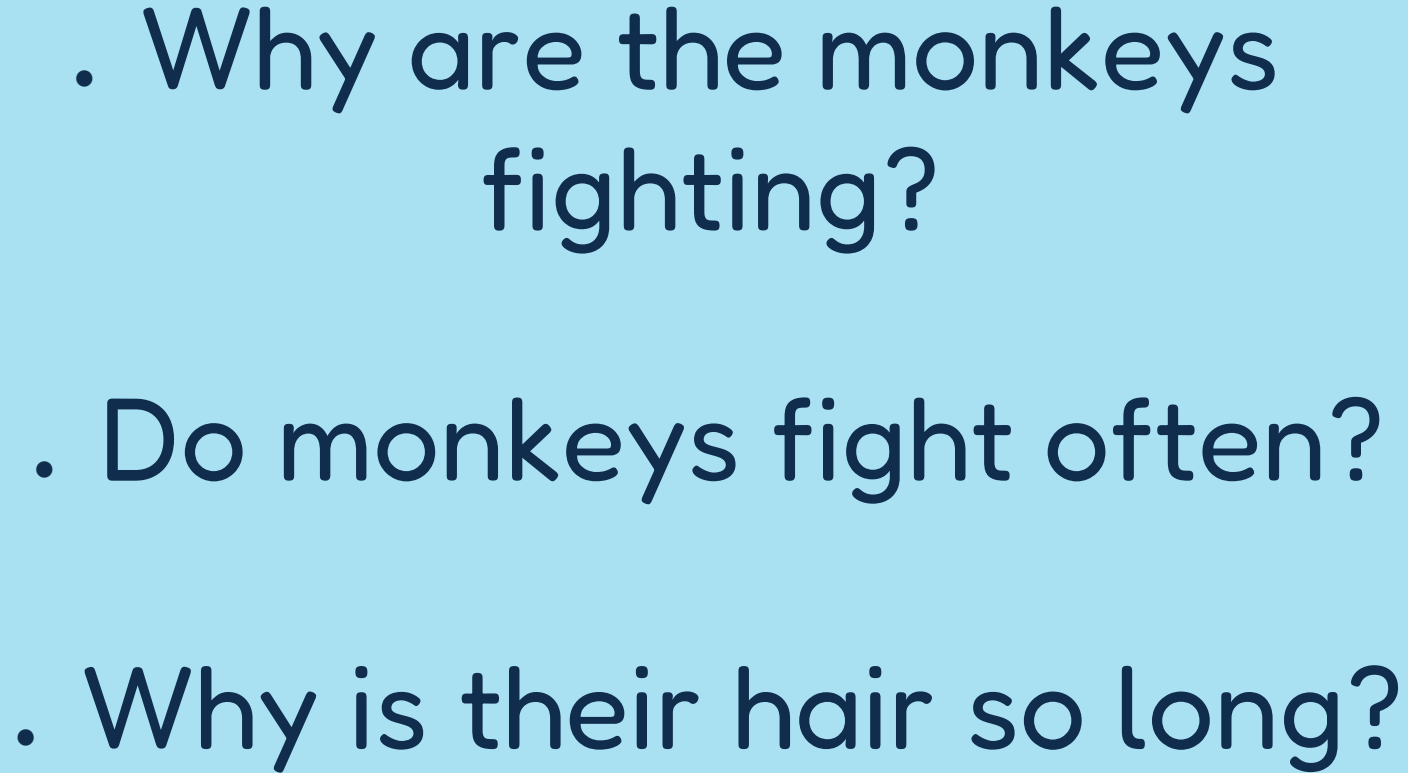
Test with
experiment

科学的方法



First day's on the job. What do you see?



- 
- . Why are the monkeys fighting?
 - . Do monkeys fight often?
 - . Why is their hair so long?

What makes a good question?

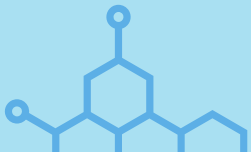
You can answer your question with observations or evidence (観察と証拠で答えられる)



Not about your opinion (意見).
“Why are dolphins the best animal?”



Clear, and not vague
曖昧じゃなくて明確



Which is the best question?



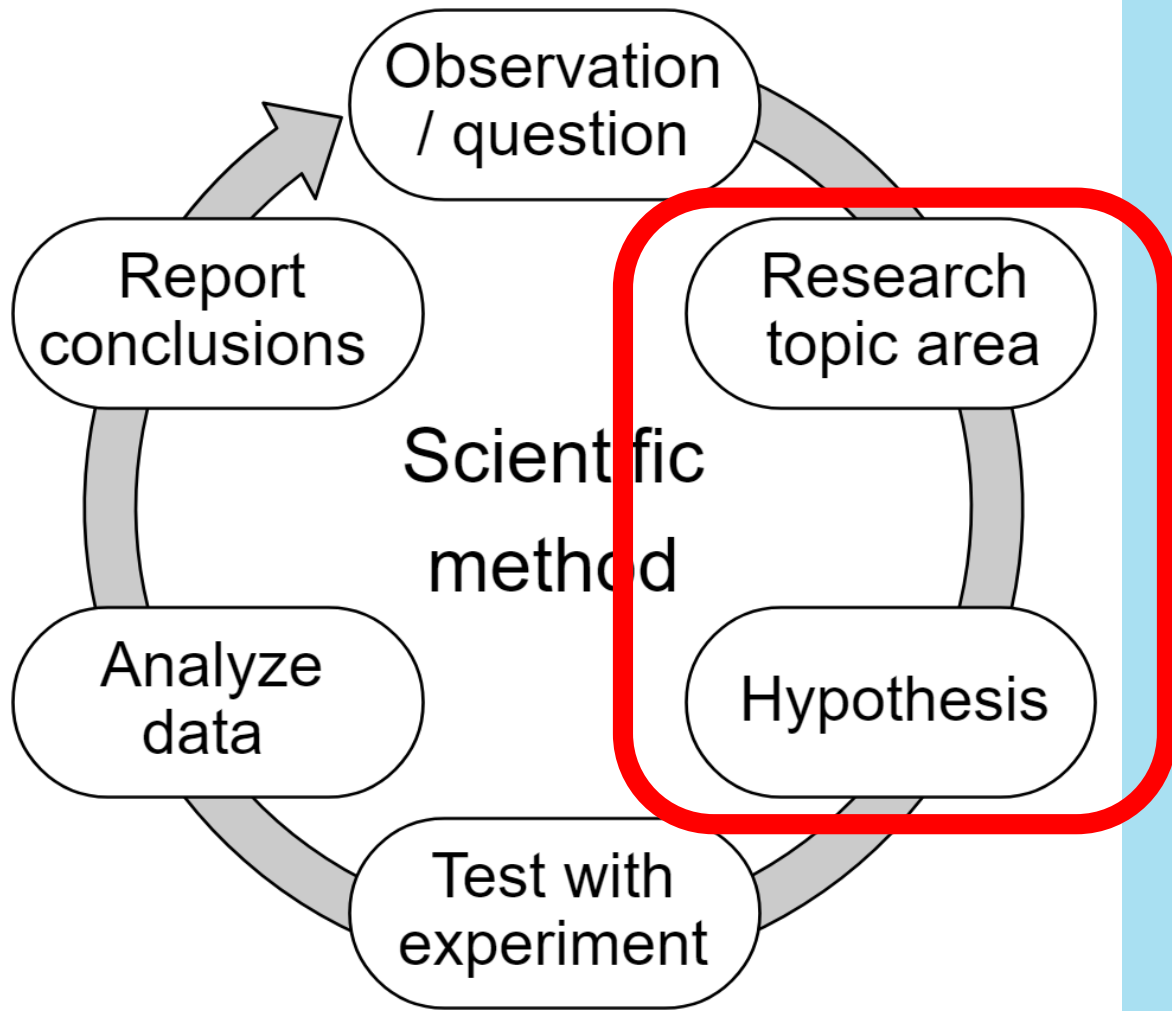
1. Do dart frogs eat bugs?

2. How do bright colors protect the dart frog?

3. Why are dart frogs so cute?

Observe, and then think of a question!





背景

仮説



Question:

How do bright colors protect the dart frog?

Hypothesis:

The bright colors show predators (捕食動物) that the dart frog is poisonous. (有毒)

Question:

How does studying affect student's test scores?



Hypothesis:

Students who study more...



Hypothesis:

Students who study more have better test scores.

Studying has a positive effect on student's test scores.

Studying has no effect on test scores.

**A Hypothesis is
usually made after
doing some background
research**

**So let's practice it
more next time 😊**