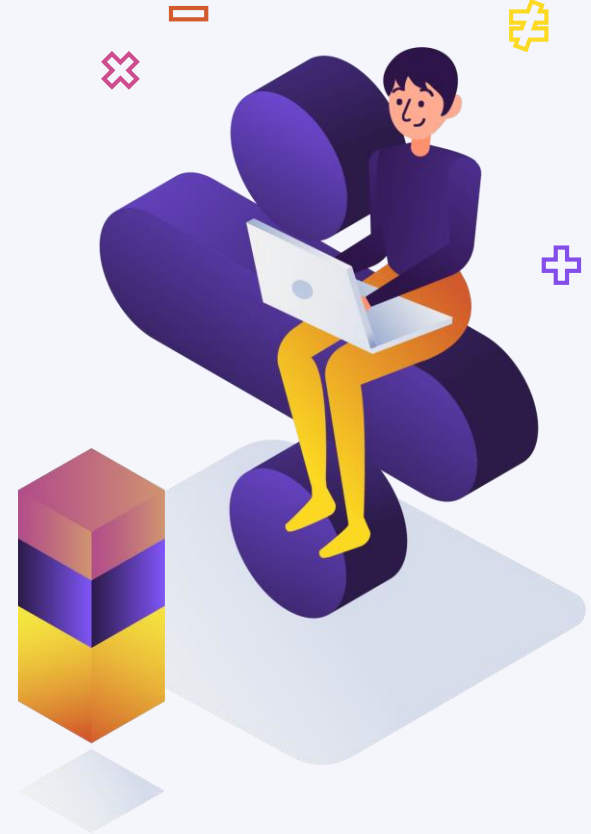




# Science English Lesson 2

Let's keep learning about the  
scientific method!



# What will we learn today?



01

**Review (復習する)  
what we learned  
last time!**

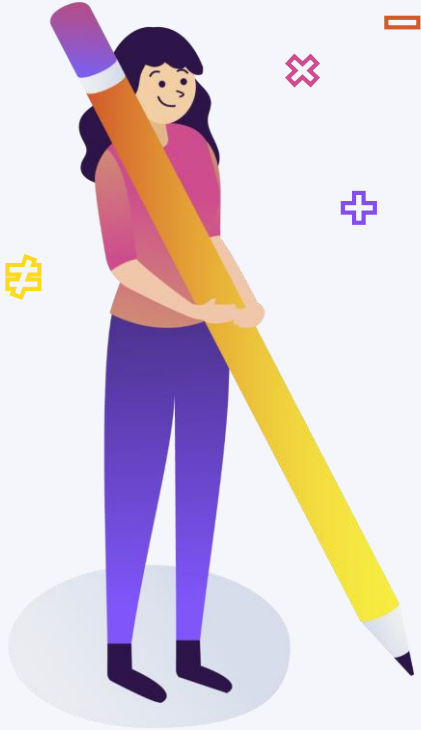
02

**Talk about  
hypotheses  
(仮説)**



# Review Scientific Field Names

Let's review them, and  
then, let's play Karuta!



# What makes a good question?

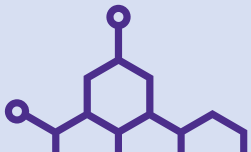
You can answer your question with observations or evidence (観察と証拠で答えられる)



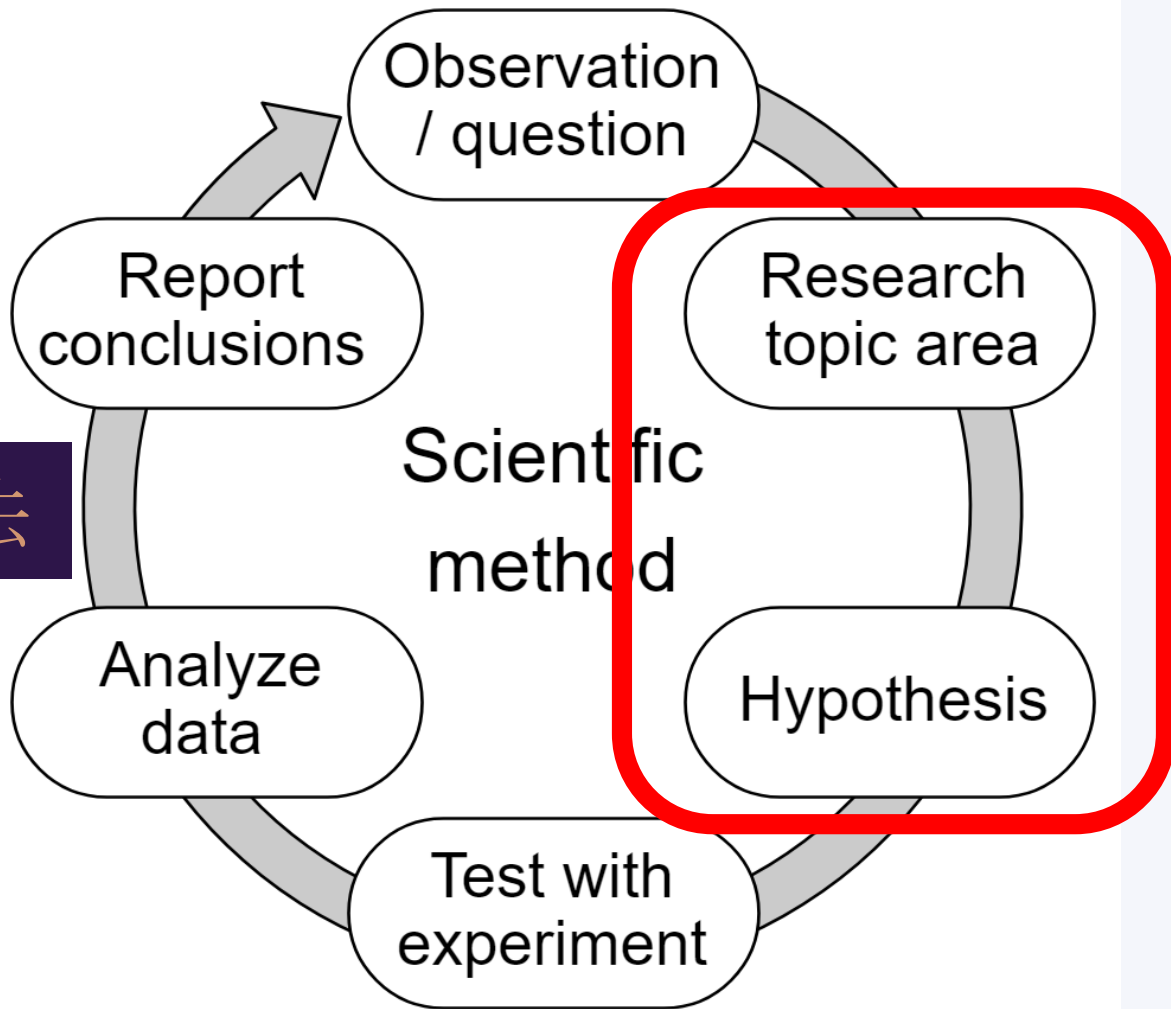
Not about your opinion (意見).  
“Why are dolphins the best animal?”



Clear, and not vague  
曖昧ではなくて明確



# 科学的方法



仮説

# What is a hypothesis? (仮説)

A prediction (予測)  
An explanation to your question.



Can be tested through experiments  
研究や実験を通して検証できる



Show relationship between two things  
変数の関係を示す



## 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.**

**Students who study more  
have lower test scores.**







## Question:

How do bright colors (明るい色) protect (守る) the dart frog?

## Hypothesis:

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

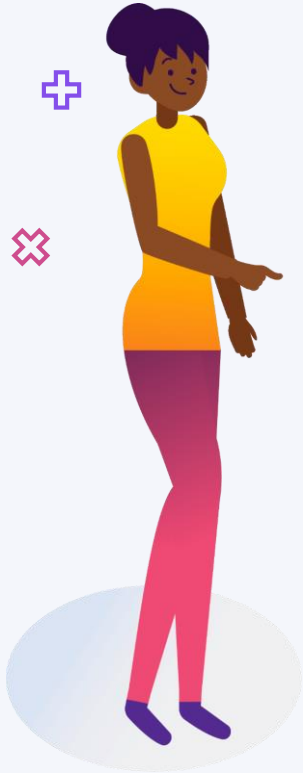




# Coral Reef



# Research Paper Practice



Hypotheses are often  
made based on  
background knowledge  
既存の知見を基に設定される

Read the background information,  
and think of a question hypothesis



## Question:

How does oxybenzone in  
affect corals?

What effect does  
oxybenzone have on  
corals?

Does oxybenzone  
damage corals?



# Hypothesis:

Oxybenzone has a negative effect on coral

Oxybenzone stops coral growth (成長)

Oxybenzone damages and kills coral.





# Hawaii





**What effect do  
oxybenzones have  
on humans?**

**Scientists haven't found  
any bad effects on  
humans, but they are still  
researching**

**Maybe you can research it  
in the future!**

**And please remember to  
use sunscreen ^ \_ ^**



Observation / question

Research topic area

Report conclusions

Scientific method

科学的方法

Hypothesis

Analyze data

Test with experiment

実験する

結論を出す

データを分析する

