

SCIENTIFIC METHOD

① Make an observation - 観察



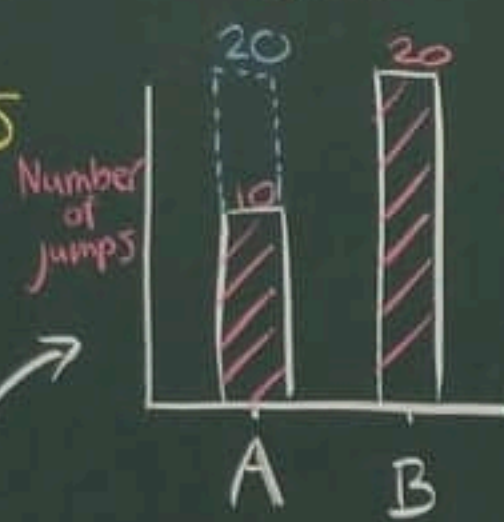
② Ask a research question

- Why, what, how, which
- Why do small fish jump from the water?

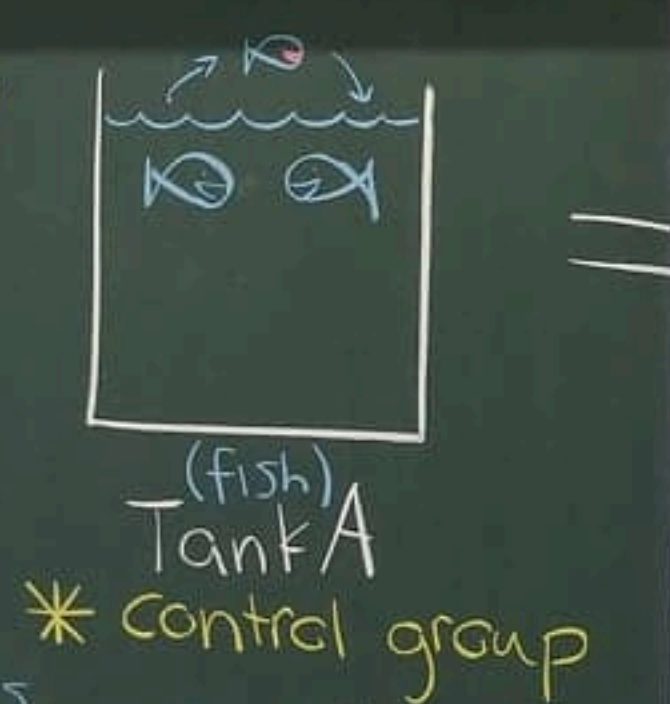
⑤ Materials and Methods

- what will you need?
- small fish
- predators
- 2x tanks

- what will you do?
- 1) ...
- 2) ...
- 3) ...



* If hypothesis is FALSE, go back and write a new one!



Jump to eat, breath, or the water is dirty or too hot/cold

③ Gather/get more information

- I go back to bridge and see predators in water!

④ Hypothesis ***

- A statement, not a question
- Must be measurable! (測ることができる)
- "If... A..., then... B..." statement.

- - If there are predators nearby, then small fish will jump more from the water
can measure
- X - Fish act strange in the water
can't measure

Measure: How many times small fish jump in A, B.

- * control for other factors - 条件
↳ size of tanks, number of fish, H₂O...

- ① Summary → The fish jumped _____ times in tank A, B
- ② Conclusions → Fish that jump when predators are nearby
- ③ Future Studies live longer
↳ Investigate if fish also jump to eat.

⑦ Discussion

what do the results mean?