

A cartoon illustration of a male teacher with dark hair and a friendly smile, wearing a white dress shirt and a red tie. He stands in a classroom with a green chalkboard behind him, a desk with books, and rows of yellow chairs and desks in the foreground. A large white speech bubble is positioned to his left, containing the text "Hello AWESOME students!".

Hello
AWESOME
students!

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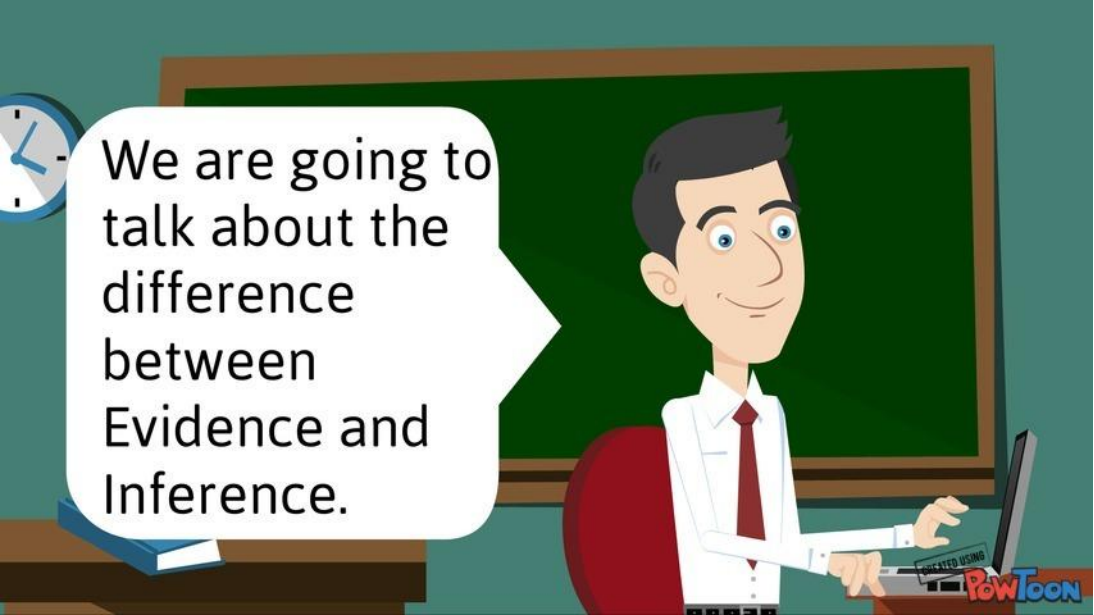
POWTOON

This is going
to be an
**amazing,
incredible**
lesson




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We are going to talk about the difference between Evidence and Inference.

A cartoon illustration of a man with dark hair, wearing a white dress shirt and a red tie, sitting at a desk. He is looking at a laptop with his eyes closed and a slight smile. The background features a green chalkboard and a clock on the wall. A large white speech bubble is positioned to the left of the man, containing the text: "But first...let's talk about WHAT science is."

But first...let's
talk about
WHAT science
is.



Science is a body of knowledge and a process.

Science is a process of discovery that links facts into comprehensive understandings of our natural world. We DO NOT PROVE anything in science!! We simply draw conclusions based on the evidence.



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Science is a way of discovering how things work now, in the past and how they will work in the future.
Science IS figuring things out!





Science is continually refining and expanding our knowledge of the universe. Science is **NEVER** "finished".





**WRITE THIS IN YOUR NOTEBOOK
ON THE LEFT COLUMN...**

Evidence:
is what you know for sure.
Evidence comes from direct
observations or experiments.

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NOW...WRITE THIS IN THE RIGHT COLUMN.

Inference:
is what you assume or guess based on the evidence and based on your own experiences.



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HOW DOES SCIENCE COME TO CONCLUSIONS?

Scientists use evidence to make inferences or draw conclusions.



HOW CAN I TELL THE
DIFFERENCE BETWEEN
EVIDENCE AND
INFERENCE?

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Write these under "Evidence"

We gather evidence using:

- * measurement tools
- * Research the topic
- * Look for patterns and "clues"
- * Experiments






Write these tools under "Inference"

Conclusions and Explanations based
on Evidence.

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BUT...what
makes "Good"
Evidence?

GOOD EVIDENCE IS...

NOT
Wikipedia

Experiments
that can be
duplicated

Graphs that
make sense

Measurements
recorded
accurately

Cited Sources

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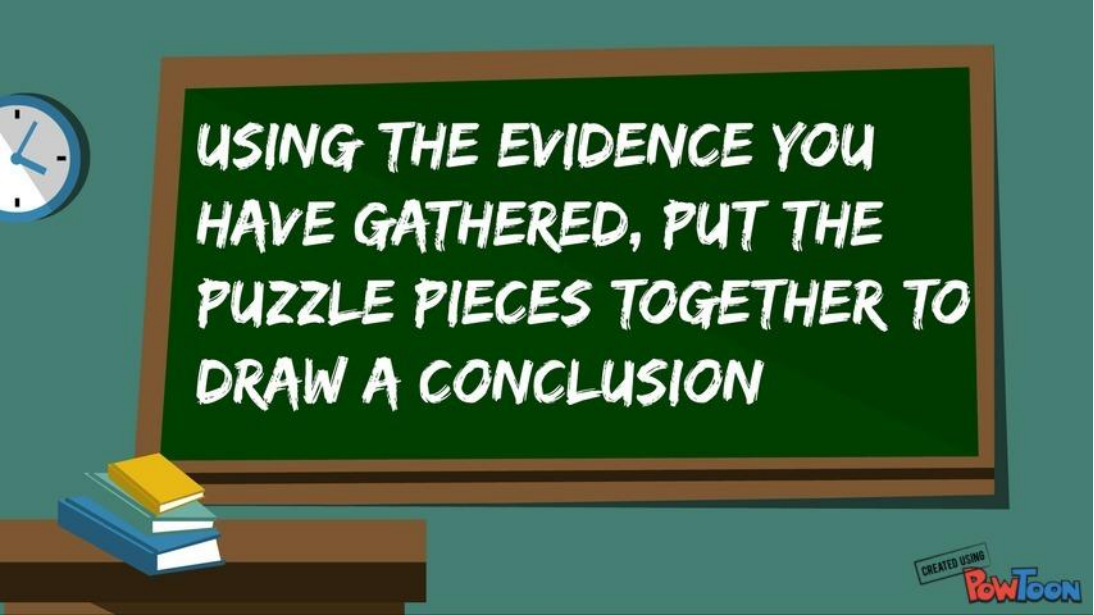
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HOW DO WE MAKE AN
INFERENCE???

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USING THE EVIDENCE YOU
HAVE GATHERED, PUT THE
PUZZLE PIECES TOGETHER TO
DRAW A CONCLUSION

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NOW...
ITS TIME TO GATHER
EVIDENCE!



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