

Observations, Inferences, & Predictions

An **OBSERVATION** is something you notice with your 5 senses.

You either see, hear, feel, touch, or smell it. That's all!! Just gathering information. That's all an observation is.

Pair Share

“An **observation** is just something you notice with your 5 senses.”

There are 2 types of observations...

Qualitative & Quantitative

Qualitative

Refers to **qualities**, or features (ex: shape, color texture) and **cannot be measured**. It's an **opinion**.

Example: "I think that flower is pretty" Not EVERYBODY will think the flower is pretty, because it is about the **QUALITY**.

"Pretty" cannot be measured. **It's an opinion.**

Pair Share

Repeat this to your partner...

“Qualitative: Refers to qualities, or features and cannot be measured. It’s an opinion.”

Quantitative:

Refers to **quantities**, EXACT numbers or something measured.

Examples: -15 cars are in the parking lot.

-There is one tree in the field

-That mouse is 3 inches long

Nobody can disagree with a measurement. It can be measured using a tool.

You can **actually see or count it!!**

Pair Share

Repeat this to your partner...

“Quantitative: Refers to **quantities**, EXACT numbers or something measured.”

An **Inference** is an educated guess as to what is happening or what has already happened. It's just like being a detective. You look at your observations and based on what you observe + what you can guess, you make an **INFERENCE** as to what is happening or happened.

Pair share....

“An **Inference** is an educated guess as to what is happening or what has already happened. It’s just like being a detective.”

Prediction

A **prediction** is a guess what will happen in the future. That's all it is. It's a **GUESS** to what will happen in the **FUTURE**

Pair Share

Repeat this to your partner...

“A prediction is a guess what will happen in the future. ”

Inference is a logical explanation about an observation based on evidence and what we know about things already

Prediction is a logical guess about what will happen in the **future.**

Inference and **Prediction** are different because..

Inference is a guess to what **HAS ALREADY** happened or is **HAPPENING NOW**.

Prediction is a guess what will happen in the **FUTURE**.

Ready for some practice???

Ready for some practice???

.....Let's go!!!

Practice

“I see a pile of leaves, a rake, and green grass.”



1= Observation, 2= Inference, 3= Prediction

Observation!!

It's an observation because you are JUST SEEING a pile of leaves, a rake and green grass”.

Remember an observation is JUST USING your five senses.

You are NOT making a guess, just looking!!!

Practice

“It is Fall.”



1= Observation, 2= Inference, 3= Prediction

Inference!!

Its an inference because you do not know *for sure* that it is fall, there is not a sign that says “Hey everybody, it’s fall”, but there is enough evidence (the fallen leaves) that lets you guess that the season is fall. Remember, inference is like “playing detective”.

Practice

“I see one rake”



1= Observation, 2= Inference, 3= Prediction

Quantitative Observation!!

Its and observation because you are just “SEEING A rake”. Remember an observation is just using your five senses.

It’s quantitative because there is only 1 rake that can be counted. One is a “quantity”

Practice

“I see many leaves”



1= Observation, 2= Inference, 3= Prediction

Qualitative Observation!!

Its and observation because you are just “SEEING many leaves”. Remember an observation is just using your five senses. It’s qualitative because you cannot count “many”. What is many to you, may not be many to somebody else.

Practice

“Someone raked the leaves into a pile.”



1= Observation, 2= Inference, 3= Prediction

Inference!!

Its an inference because you do not know *for sure* that somebody raked the leaves. There is not a sign that says “Hey everybody, I raked the leaves”, but there is enough evidence (the leaves in a pile and a rake in the picture) that lets you guess how the leaves got into a pile.

Remember, inference is like “playing detective”.

Practice

“A kid will jump in the pile”



1= Observation, 2= Inference, 3= Prediction

Prediction!!

Its a prediction because you are guessing what will happen IN THE FUTURE. A prediction is a guess what will happen in the future.