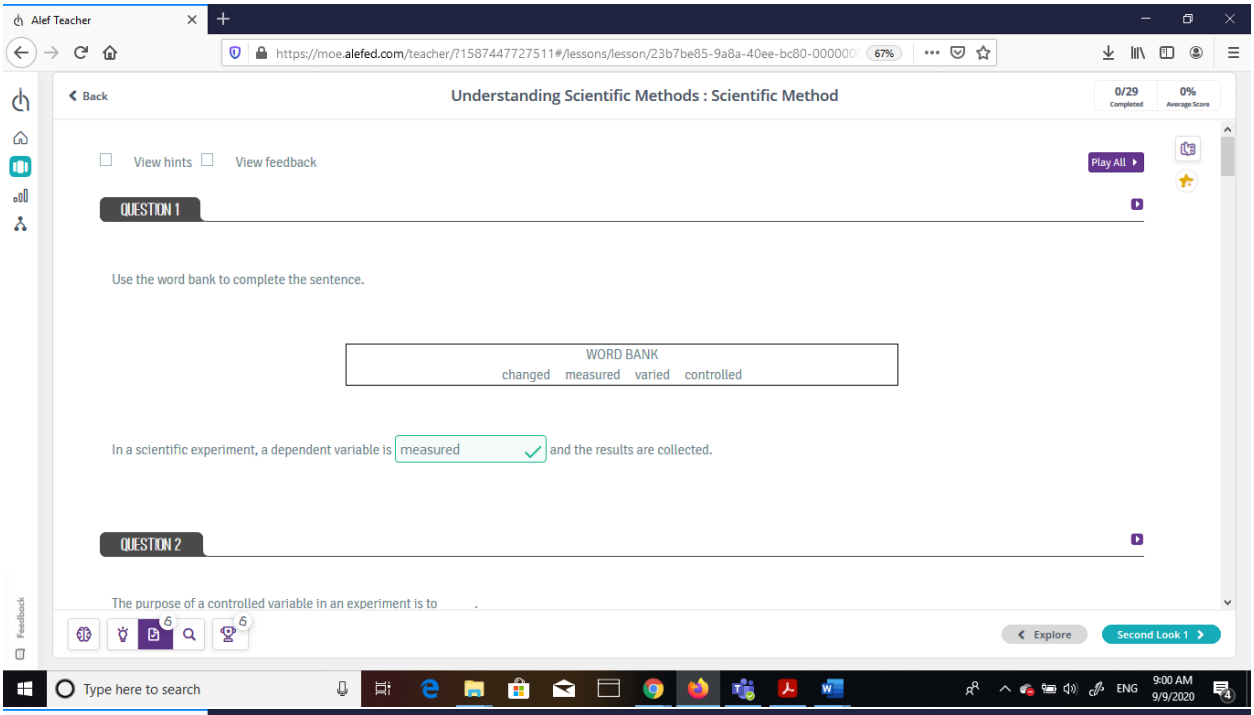
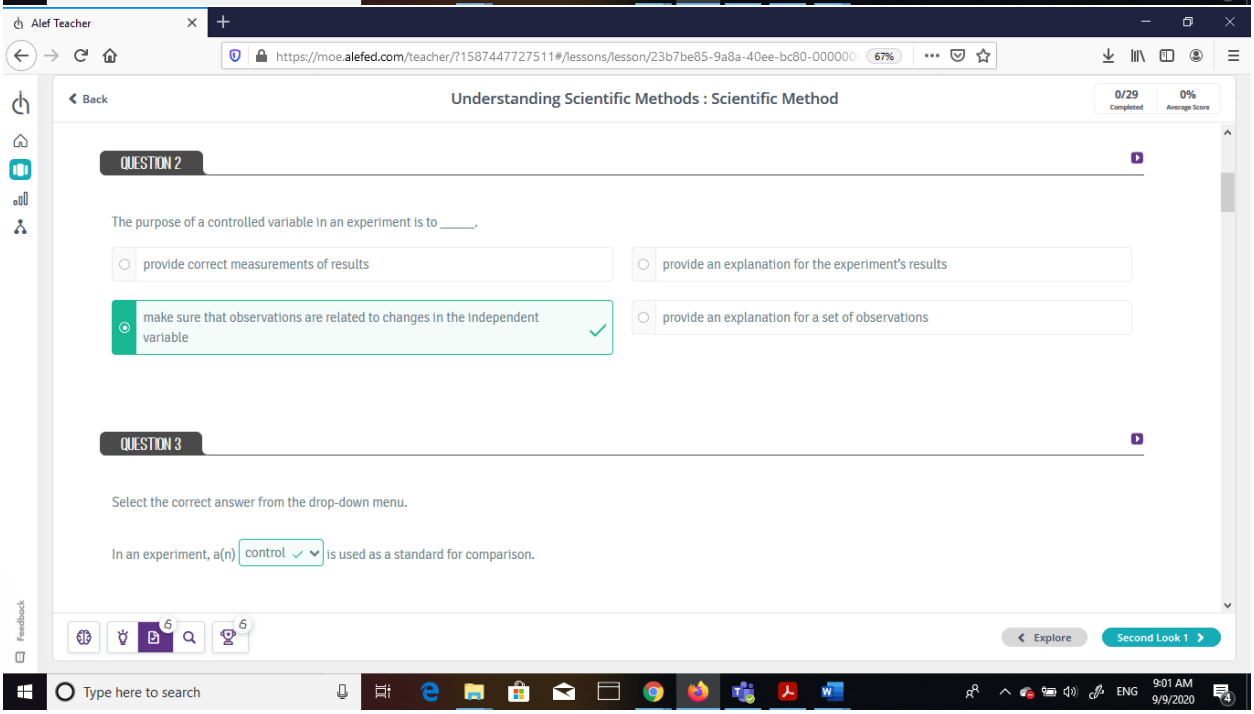
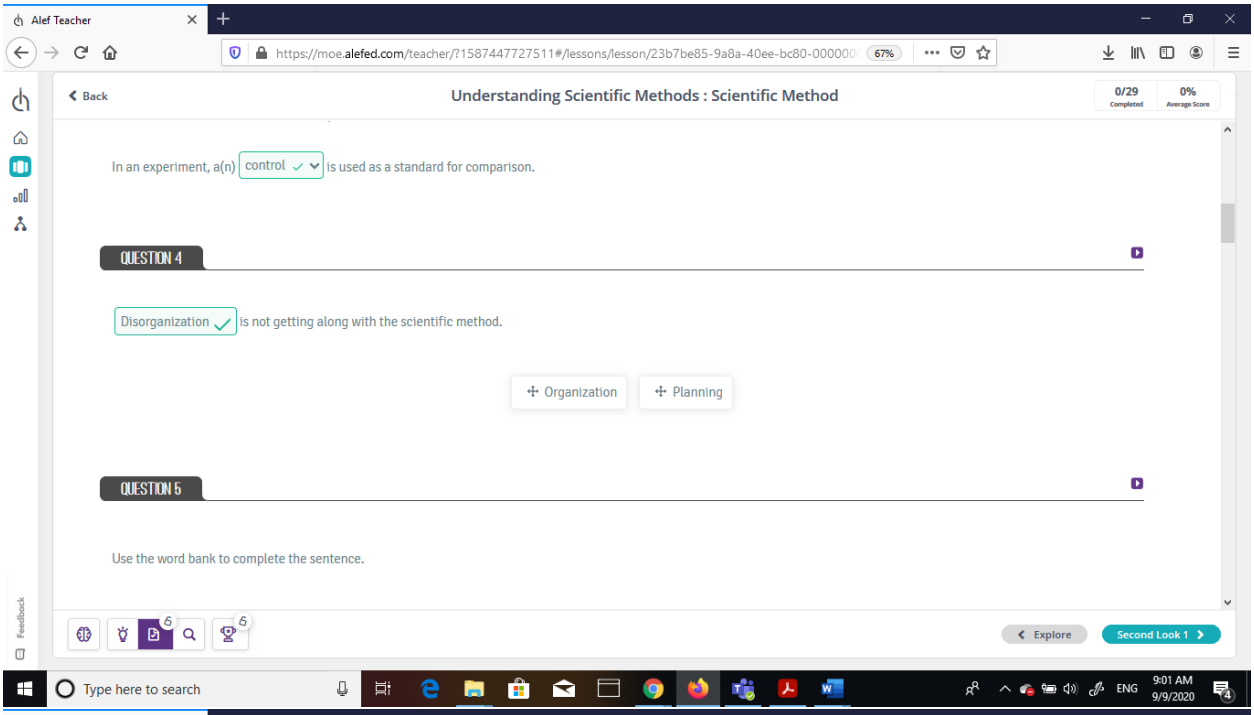
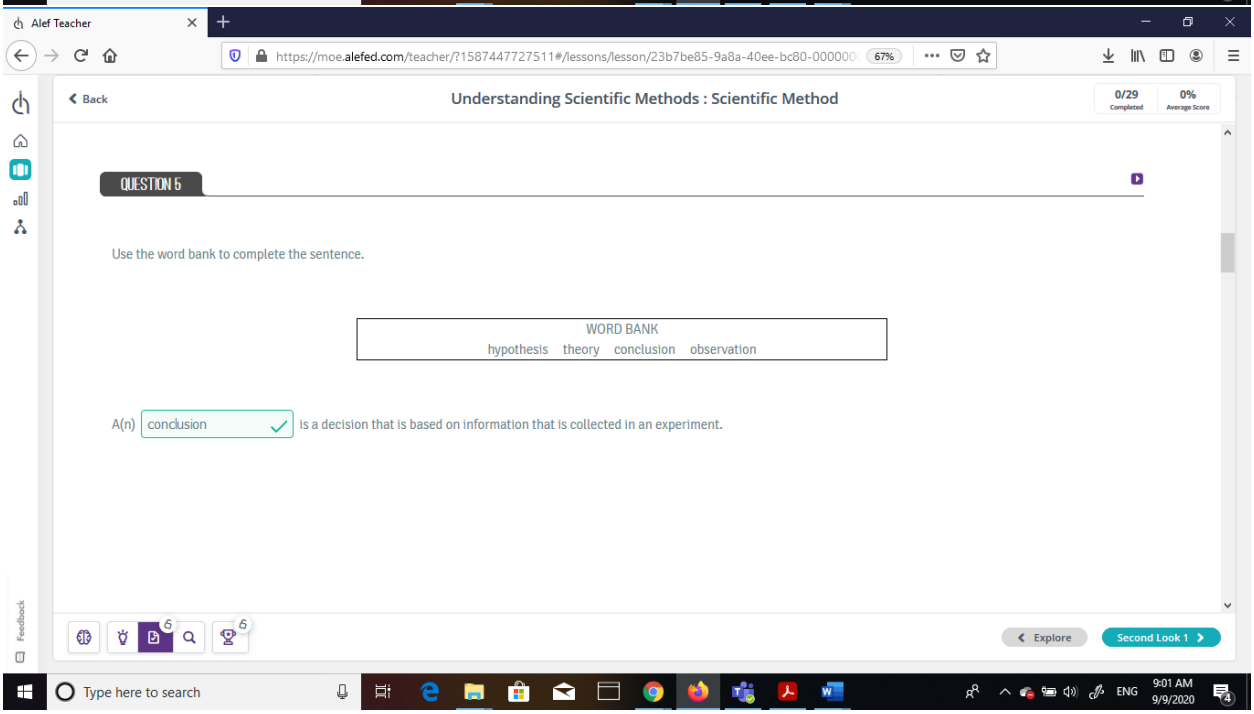
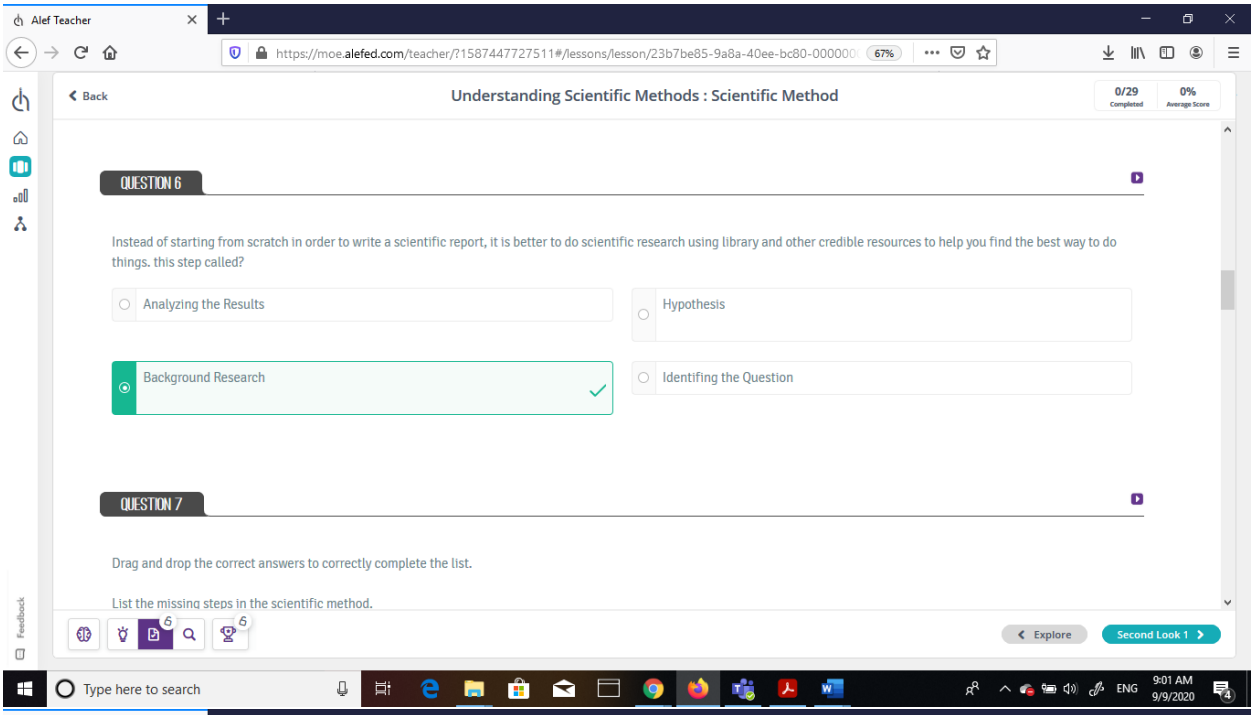
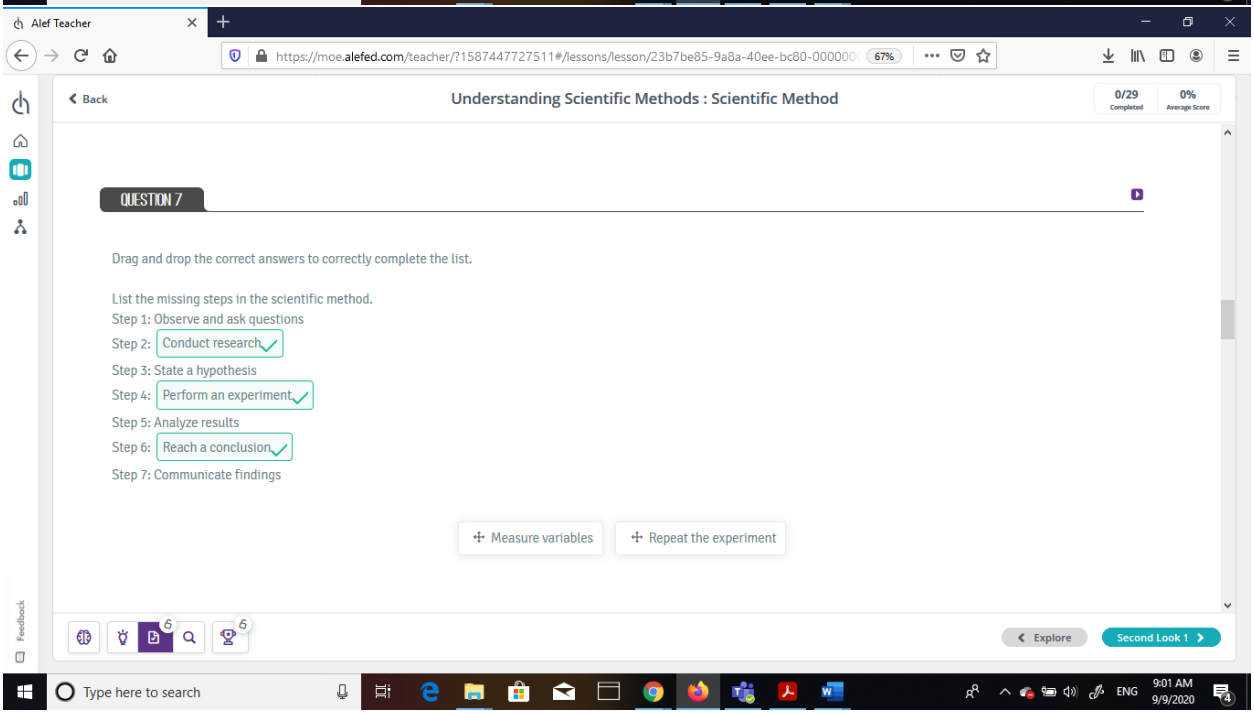

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QUESTION 1
Use the word bank to complete the sentence.
WORD BANK
changed measured varied controlled
In a scientific experiment, a dependent variable is measured and the results are collected.
QUESTION 2
The purpose of a controlled variable in an experiment is to .
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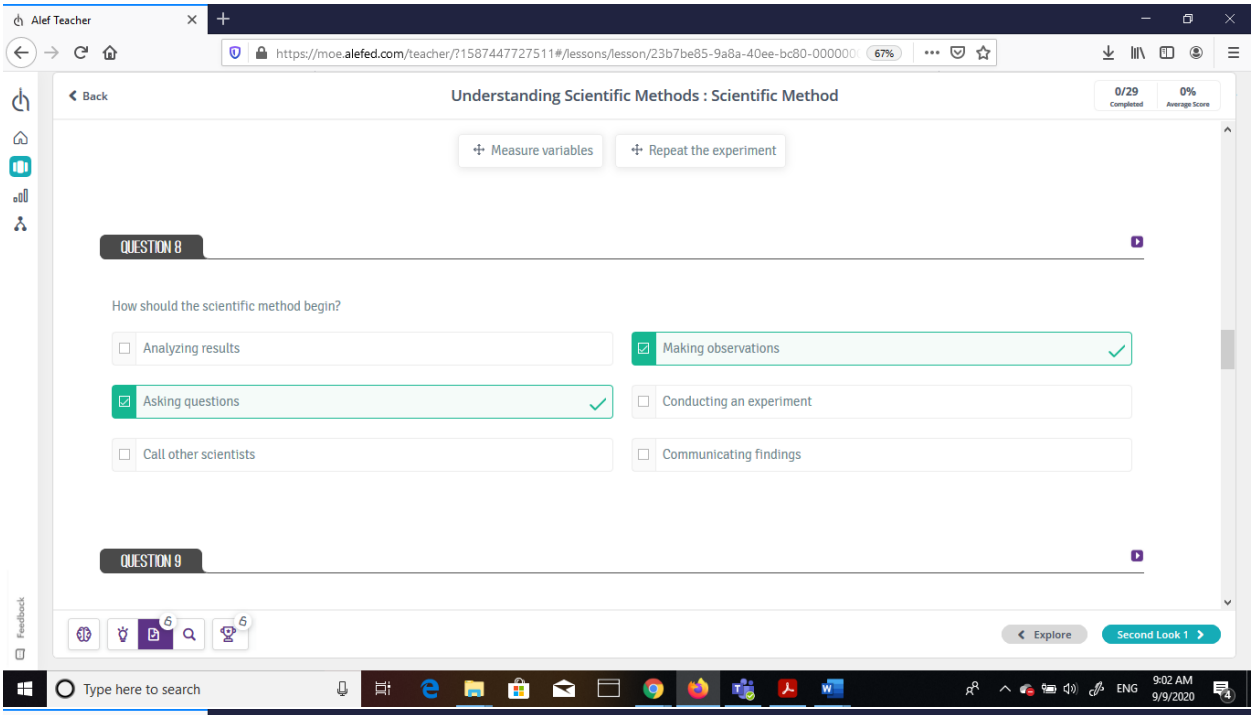

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QUESTION 2
The purpose of a controlled variable in an experiment is to _____.
provide correct measurements of results
provide an explanation for the experiment's results
make sure that observations are related to changes in the independent variable
provide an explanation for a set of observations
QUESTION 3
Select the correct answer from the drop-down menu.
In an experiment, a(n) control is used as a standard for comparison.
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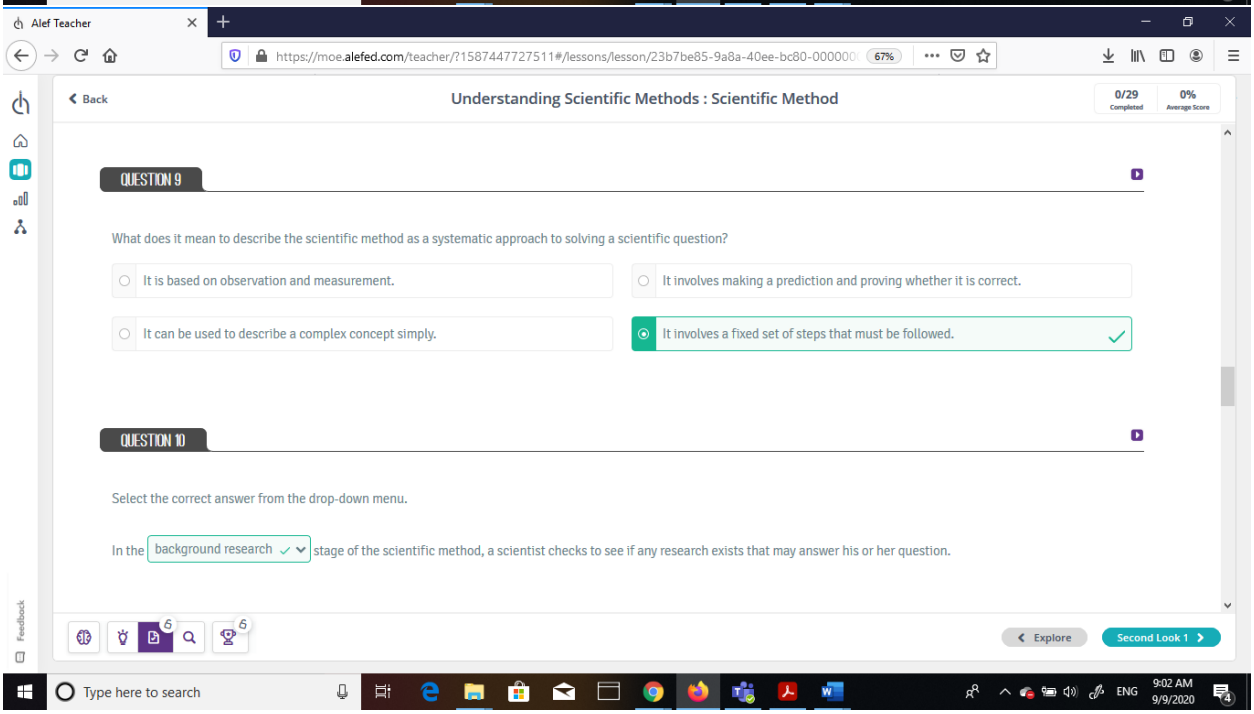

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In an experiment, a(n) control is used as a standard for comparison.
QUESTION 4
Disorganization is not getting along with the scientific method.
Organization
Planning
QUESTION 5
Use the word bank to complete the sentence.
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QUESTION 5
Use the word bank to complete the sentence.
WORD BANK
hypothesis theory conclusion observation
A(n) conclusion is a decision that is based on information that is collected in an experiment.
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QUESTION 6
Instead of starting from scratch in order to write a scientific report, it is better to do scientific research using library and other credible resources to help you find the best way to do things. this step called?
Analyzing the Results
Hypothesis
Background Research
Identifing the Question
QUESTION 7
Drag and drop the correct answers to correctly complete the list.
List the missing steps in the scientific method.
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QUESTION 7
Drag and drop the correct answers to correctly complete the list.
List the missing steps in the scientific method.
Step 1: Observe and ask questions
Step 2: Conduct research
Step 3: State a hypothesis
Step 4: Perform an experiment
Step 5: Analyze results
Step 6: Reach a conclusion
Step 7: Communicate findings
Measure variables
Repeat the experiment
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Measure variables
Repeat the experiment
QUESTION 8
How should the scientific method begin?
Analyzing results
Making observations
Asking questions
Conducting an experiment
Call other scientists
Communicating findings
QUESTION 9
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QUESTION 9
What does it mean to describe the scientific method as a systematic approach to solving a scientific question?
It is based on observation and measurement.
It involves making a prediction and proving whether it is correct.
It can be used to describe a complex concept simply.
It involves a fixed set of steps that must be followed.
QUESTION 10
Select the correct answer from the drop-down menu.
In the background research stage of the scientific method, a scientist checks to see if any research exists that may answer his or her question.
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QUESTION 11

Drag and drop the answers to correctly complete the sentence.

Quantitative data is collected by taking measurements, while qualitative data is collected by making observations.

asking questions

drawing conclusions

QUESTION 12

Enter the correct answer in the space provided to complete the sentence.

During a scientific experiment, the control sample is not manipulated during the experiment. It is used to compare the results of the experimental sample against.

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QUESTION 13

Select the correct answer from the drop-down menu.

A scientific experiment shows a cause and effect relationship.



QUESTION 14

After an experiment has been completed, the scientist conducting the experiment should ask which question?

- Is my hypothesis related to this experiment?
- Did this experiment prove my hypothesis? ✓
- Which factors in this experiment are controlled and which are variable?
- What will happen if I repeat the experiment using the same variables?

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QUESTION 15

What should a scientist do after an experiment if it is determined that its results do support his or her hypothesis?

- Repeat the experiment to test its validity.
- Ask others to analyze and review the results.
- Test the conclusion to see if it is correct.
- Communicate his or her findings. ✓

QUESTION 16

Why is it important for a scientist to follow the scientific method when conducting an experiment?



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QUESTION 16

Why is it important for a scientist to follow the scientific method when conducting an experiment?




- The results of the experiment can be predicted with great accuracy.
- Other scientific questions will be answered using the experiment as well.
- The scientist can be assured that his or her experiment will produce a new discovery.
- Other scientists will be able to repeat the experiment with the same results. ✓

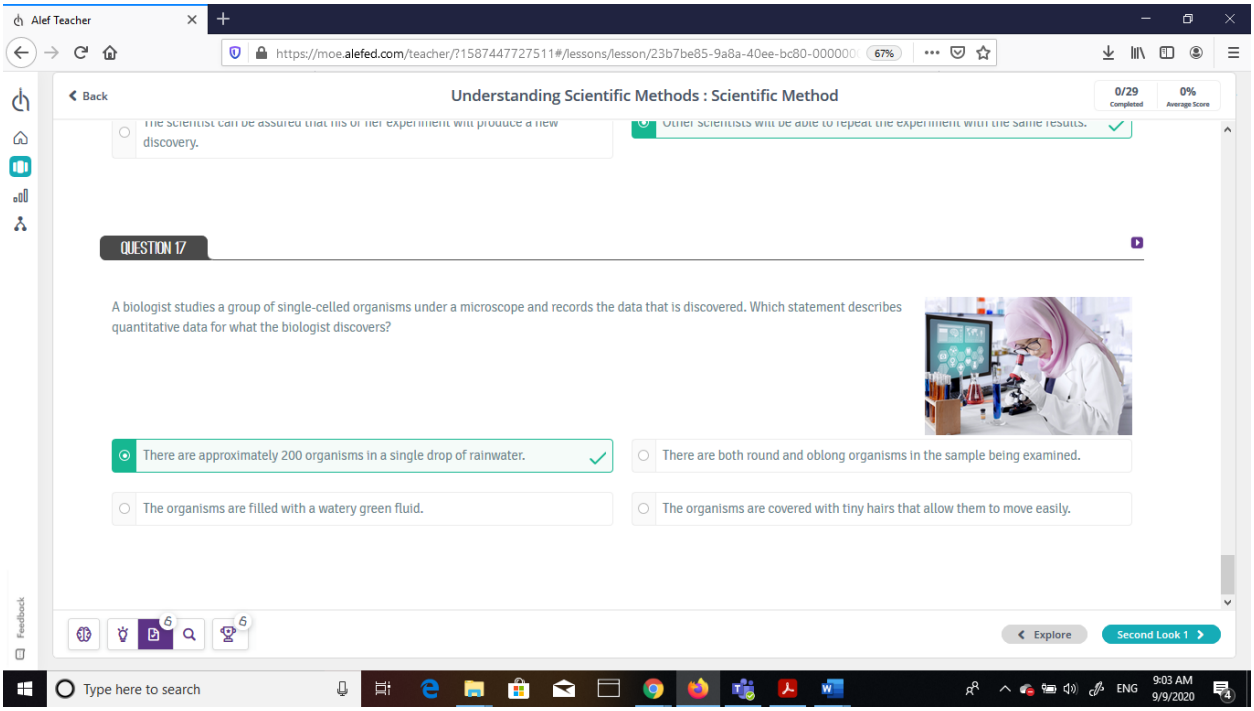
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discovery.
QUESTION 17
A biologist studies a group of single-celled organisms under a microscope and records the data that is discovered. Which statement describes quantitative data for what the biologist discovers?
There are approximately 200 organisms in a single drop of rainwater.
There are both round and oblong organisms in the sample being examined.
The organisms are filled with a watery green fluid.
The organisms are covered with tiny hairs that allow them to move easily.
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