# Biology 1 End-of-Course Assessment Practice Test

1. Based on your knowledge of scientific investigations, which stage of scientific investigation did the invention of the microscope significantly advance?

{{$1a}}Communicating the results of experimentation

{{$1b}}Gathering the data for the investigation

{{$1c}}Generating explanations of phenomena

{{$1d}}Planning the investigation and experimentation

{{comments1\_es\_:signer2:multiline(4) }}

1. A student is conducting an investigation to determine the effect of temperature on the metabolism of yeast (Saccharomyces cerevisiae). Yeast and sugar are added to water, the gas produced is captured, and its volume is recorded. Which variables should be held constant during this investigation?

{{$2a}}Mass of sugar and water temperature

{{$2b}}Mass of yeast and mass of sugar

{{$2c}}Volume of gas and water temperature

{{$2d}}Volume of gas and mass of yeast

{{comments2\_es\_:signer2:multiline(4) }}

1. Scientific law and a scientific theory are similar in that

{{$3a}}describe the events that can be observed in nature

{{$3b}}explain why events and conditions occur as they do in the natural world

{{$3c}}represent a large amount of scientific investigation and evidence

{{$3d}}describe the events that can be observed in nature

{{comments1\_es\_:signer2:multiline(4) }}

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{{comments1\_es\_:signer2:multiline(4) }}

Student Name: {{studentName}}

Student Email: {{studentEmail}}

{{$y}}Student is permitted to take the final

{{$n}}Student is NOT permitted to take the final

{{Sig\_es\_:signer2:signature }}

{{#y=(yes)Permitted\_es\_:signer2}}

{{#n=(no)Permitted\_es\_:signer2}}

{{#1a=(a)Question1\_es\_:signer1}}

{{#1b=(b)Question1\_es\_:signer1}}

{{#1c=(c)Question1\_es\_:signer1}}

{{#1d=(d)Question1\_es\_:signer1}}

{{#2a=(a)Question2\_es\_:signer1}}

{{#2b=(b)Question2\_es\_:signer1}}

{{#2c=(c)Question2\_es\_:signer1}}

{{#2d=(d)Question2\_es\_:signer1}}

{{#3a=(a)Question3\_es\_:signer1}}

{{#3b=(b)Question3\_es\_:signer1}}

{{#3c=(c)Question3\_es\_:signer1}}

{{#3d=(d)Question3\_es\_:signer1}}

{{#4a=(a)Question4\_es\_:signer1}}

{{#4b=(b)Question4\_es\_:signer1}}

{{#4c=(c)Question4\_es\_:signer1}}

{{#4d=(d)Question4\_es\_:signer1}}

{{#5a=(a)Question5\_es\_:signer1}}

{{#5b=(b)Question5\_es\_:signer1}}

{{#5c=(c)Question5\_es\_:signer1}}

{{#5d=(d)Question5\_es\_:signer1}}