

KS3 Age Related Expectations

SCIENCE

YEAR 7

APPROACHING STANDARD

With help, I can identify independent, dependent variables and choose the correct simple predictions. With help I can follow a method safely and take accurate measurements. I can draw a line of best fit on a graph and choose the correct simple conclusion from a choice. I can choose simple positives and negatives of an investigation given a choice. With help, I can use my mathematical skills to carry out various functions, such as calculating mean, median and mode. I am beginning to develop some knowledge and understanding of scientific ideas and processes.

AGE RELATED

I can identify independent, dependent and control variables and make simple predictions. Following a method safely I can take accurate measurements. I can draw a line of best fit on a graph and make simple conclusions from it. I can give simple positives and negatives of an investigation. I can use my mathematical skills to carry out various functions, such as calculating mean, median and mode. I am developing knowledge and understanding of scientific ideas and processes.

GREATER DEPTH

I can write a hypothesis for an experiment from the variables I have identified. With help, I can write a method for an experiment, collecting my results in a suitable table. I can plot my data as a graph with some help. I can make several conclusions from my experiment and support with data. I can evaluate the validity of my method. I am being to use my mathematical skills to substitute numbers into an equation. I have knowledge and understanding of several scientific ideas and processes.

GREATER DEPTH PLUS

I can formulate a testable hypothesis from the independent, dependent and control variables I have identified. I can write a clear and detailed method for an experiment. I can deal with anomalous results from my experiment before plotting them on a graph. I can identify a suitable scale for my graph. I can make several conclusions from my data and suggest improvement to my method. I can use my mathematical skills to carry out a range of functions such as percentage change. I can apply my knowledge and understanding of a range of scientific ideas and processes.



How do I make progress in Science?

PROGRESSION

YEAR 8

APPROACHING STANDARD

I can identify independent, dependent and control variables and make simple predictions. Following a method safely I can take accurate measurements. I can draw a line of best fit on a graph and make simple conclusions from it. I can give simple positives and negatives of an investigation. I can use my mathematical skills to carry out various functions, such as calculating mean, median and mode. I am developing knowledge and understanding of scientific ideas and processes.

AGE RELATED

I can write a hypothesis for an experiment (with help) from the variables I have identified. With help, I can write a method for an experiment, collecting my results in a suitable table. I can plot my data as a graph with some help. I can make conclusions from my experiment and support with data. I can evaluate the validity of my method. I am being to use my mathematical skills to substitute numbers into an equation. I have knowledge and understanding of several scientific ideas and processes.

GREATER DEPTH

I can formulate a testable hypothesis from the independent, dependent and control variables I have identified. I can write a clear and detailed method for an experiment. I can deal with anomalous results from my experiment before plotting them on a graph. I can identify a suitable scale for my graph. I can make several conclusions from my data and suggest improvement to my method. I can use my mathematical skills to carry out a range of functions such as percentage change. I can apply my knowledge and understanding of a range of scientific ideas and processes.

GREATER DEPTH PLUS

I can independently plan an experiment that includes consideration of all variables and a method that is reproducible. I can confidently plot data on a graph that I have chosen the scale for. I can make several conclusions from my data and suggest improvement to my method based on repeatability. I can use my mathematical skills to carry out a range of functions such as unit conversion. I can apply my knowledge and understanding of a range of scientific ideas and processes.



PROGRESSION

YEAR 9

APPROACHING STANDARD

I can write a hypothesis for an experiment from the variables I have identified. With help, I can write a method for an experiment, collecting my results in a suitable table. I can plot my data as a graph with some help. I can make conclusions from my experiment and support with data. I can evaluate the validity of my method. I am being to use my mathematical skills to substitute numbers into an equation. I have an understanding of several scientific ideas and processes.

AGE RELATED

I can formulate a testable hypothesis from the independent, dependent and control variables I have identified. I can write a clear and detailed method for an experiment. I can deal with anomalous results from my experiment before plotting them on a graph. I can identify a suitable scale for my graph. I can make several conclusions from my data and suggest improvement to my method. I can use my mathematical skills to carry out a range of functions such as percentage change. I can apply my knowledge and understanding of a range of scientific ideas and processes.

GREATER DEPTH

I can independently plan an experiment that includes consideration of all variables and a method that is reproducible. I can confidently plot data on a graph that I have chosen the scale for. I can make several conclusions from my data and suggest improvement to my method based on repeatability. I can use my mathematical skills to carry out a range of functions such as unit conversion. I can apply my knowledge and understanding of a range of scientific ideas and processes.

GREATER DEPTH PLUS

I can confidently write a method that evaluate all risks, and all possible variables have been considered. I can justify the equipment I have used to collect my data, based on resolution. I can identify the most appropriate way to present my data and process it to make several conclusions. I can suggest how to test the repeatability and reproducibility of my experiment. I can use my mathematical skills to carry out a range of functions such as rearranging an equation. I can confidently apply knowledge and understanding of many scientific ideas and processes.

