

VOCAB	DEFINITION
ask	to question
change	to transform or convert, to make different
classify	to sort based on characteristics
compare	tell how something is the same
construct	to build or make
contrast	tell how things are different
create	make
data	information gathered and shown in charts, graphs and tables
differentiate	recognize what makes something different
distinguish	to recognize differences
demonstrate	to show or model, describe, explain or illustrate
define	give the meaning of
describe	give characteristics or details of a situation
design	to make a plan to create (layout/blueprint) in order to solve a problem or answer a scientific question
determine	to settle or decide upon
discuss	to talk
draw	to come to a conclusion based on an observation of data, to illustrate
examine	to look at closely at the properties, characteristics and details of an object
examples	things that fit a certain criteria
experiment	predict and test, step of the scientific method that tests your hypothesis
experience	to be involved with or to do
explain	to support your findings in order to clarify

explore	to find out, investigate or research
factors/ variables	things that can change or stay the same in an experiment
generate	produce
identify	to name it
illustrate	to make something clear through images
infer	to conclude from evidence and reasoning
integrate	to include with other things
interaction	the relationship between two or more entities (animals, chemicals, plants, etc)
investigate	to find out facts; to research
learn	grow understanding
manipulate	to handle or control
measurement	describe the amount of something (capacity, length, etc.)
mimic	to copy
move	change location
observe	using your senses to gain information , to look or see
practice	repeated action with the goal of improvement
predict	to say something will or might happen based on prior knowledge
prepare	to make ready for use
recognize	recall or relate due to previous information
record	to document/write/ draw/illustrate
relate	to give an account of a sequence of events
report	to inform someone about your findings/ communicate results
rises and sets	to go above and to go below
share	give or receive information from others/ collaborate
sketch	to draw

support	give reasoning for your thoughts/ provide data
understand	to grasp the idea of or to learn
utilize	to use
AP Bio/Chem Vocabulary	
analyze	interpret data sets or statements made based on evidence in order to reach a conclusion
Apply	Use a concept, theory, principle, or mathematical equation in a different context.
Calculate	Use math and mathematical concepts to find a relationship. You may need to use your formula chart, and may need a calculator. You may also be asked to show your work.
Connect	Find a relationship between two or more pieces of information.
Construct	Build or devise a representation of a concept. You may also be asked to construct an explanation or a model of a concept.
Convert	Transform a data set into graphical or pictorial form.
Create	Build or devise a representation of a concept. You may also be asked to build a model of a concept.
Describe	Use details to provide an accurate account of a situation.
Design	Produce an experimental plan that may or may not be used to collect data.
Draw	Sketch, illustrate or represent an idea or data set in graphic form
Evaluate	Examine evidence provided, or data collected.
Explain	Provide details and reasons in order to clarify something.
Justify	Support a statement with sufficient evidence.
Model	Simulate or represent a process or concept.
Pose	Ask questions about an idea or concept.
Predict	Tell what you expect will happen.
Refine	Clarify assertions or models about a concept by using evidence.
Represent	Use a graph, diagram or model to illustrate a concept.

Solve	Use math (formulas, equations) to find the answer to a question or to illustrate a relationship between variables
Use data	Employ data sets to construct explanations and to provide evidence.

Students struggle with:

Answering the question: how, why, what. They rewrite the question in their answer but do not answer the question.

Understanding of compare and **contrast**.

Analyzing and applying data.

Relating data to concepts.

Required skills:

Make observations, make predictions, collect data, draw a conclusion= problem solving