

DRAFT: Content and Skills Vertical Alignment - Example

	<u>Physics</u> <u>Physics Honors</u>	<u>Chemistry</u> <u>Chemistry Honors</u>	<u>Biology</u> <u>AP Biology</u>
Science Practices	Collecting quality data Organizing, analyzing, interpreting data Using a graph to make predictions Designing, constructing and carrying out experiments Creating, interpreting, examining graphs Developing and using models Using mathematical and computational thinking Working with quantitative data	Collecting quality data Organizing, analyzing, interpreting data Using a graph to make predictions Designing, constructing and carrying out experiments Creating, interpreting, examining graphs Developing and using models Using mathematical and computational thinking Working with quantitative/qualitative data	Writing Team at Work
Math/ Graphing/ Statistics	<u>Apply mathematical and computational thinking to datasets</u> Identifying mathematical and graphical trends IV/DV; Line of best fit Uncertainty (quantity/quality of data sets) Use spreadsheets to graph data sets Unit conversions Manipulating algebraic equations <u>Sine, cosine and tangent</u> <u>Systems of equations</u> <u>Function identification (linear/quadratic)</u>	Unit conversions (moles, grams...) Proportions/Dimensional Analysis Unit conversions Identifying mathematical and graphical trends Manipulating algebraic equations	Writing Team at Work

Vertical Alignment Categories:

- Science Practices
- Math/ Graphing/ Statistics
- Earth Science
- Energy
- Motion/Movement
- Waves
- Bonds & Intermolecular Attractions
- Forces & Momentum
- Chemical Reactions
- Thermodynamics