



## SCIENCE COMPETENCY RUBRIC

Competency	Not Yet	On Track	Mastery	Exceed
Science Word Work	no work	<p>I can use scientific terms appropriately</p> <p>I can define unknown scientific terms</p> <p>I can sort scientific terms into word families</p>	<p>I can paraphrase definitions and give real world examples to illustrate the meaning</p> <p>I can connect scientific terms to real world applications</p> <p>I can describe how scientific terms relate to one another</p>	<p>I can connect scientific terms to other disciplines</p> <p>I can be a mentor to my classmates how and why scientific terms relate in word families</p>
Gathering and Organizing Information	no work	<p>When examining a problem, I can identify the important information, I can accurately rephrase the problem.</p> <p>I can provide examples to illustrate the problem.</p> <p>I can identify the appropriate tools to measure.</p> <p>I can create a visual representation of the problem (table, chart).</p>	<p>I can independently differentiate between essential information and distractors in a problem.</p> <p>When working with multi-step problems I can explain the relationship among the parts of the problem.</p> <p>I can accurately and independently measure using the metric system and label with units</p> <p>I can identify what additional information would be helpful to solving the problem</p>	<p>I can express my criteria and process for determining which information in a problem is important and which information is not, and adapt my criteria as necessary.</p> <p>I can independently identify and apply the appropriate units of measure based on given information</p> <p>I can be a mentor to my classmates on how to measure using the metric system</p>

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Engineering and building projects	Students showed no work	<p>I use materials appropriately</p> <p>I can read and understand written instructions</p>	<p>I can break down complex tasks into steps</p> <p>I can select and use the appropriate materials</p> <p>I understand how and why natural phenomena systems work</p> <p>I can create physical representations of scientific concepts and natural phenomena</p>	<p>I mentor others in understanding the necessary steps and instructions</p> <p>I can attempt to improve on physical representations of scientific concepts and natural phenomena</p>
Reading Informational Texts	students showed no work	I can summarize readings-and attempt to use reading techniques with (scaffolding)	<p>Independently analyze and research using reading techniques.</p> <ul style="list-style-type: none"> <li>• annotations</li> <li>• graphic organizers</li> </ul> <p>I can identify main idea and supporting details</p>	<p>I can complete research by selecting the learning strategy I need, using techniques of their interest.</p> <p>I can synthesize multiple readings on the same topic</p>
Drawing Conclusions and Hypothesizing	students showed no work	<p>I can use information from the problem to draw conclusions about the investigation, though my conclusion may not be completely accurate.</p> <p>I can explain why I selected the information I did to solve an investigation.</p> <p>I can make scientific inferences.</p>	<p>Using information from one problem, I can predict and use my solutions to help me solve other investigations.</p> <p>I can explain how I arrived at my solution by using information from the investigation.</p> <p>I can self-check and explain my inferences and conclusions to revise them as I gather new information or work through an investigation.</p>	<p>I can hypothesize multiple approaches to solve an investigation.</p> <p>I can create unique approaches to solving investigations and explain when those approaches will work and will not work.</p>

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Reflection	students showed no work	<p>I can summarize what I learned and where I am confused.</p> <p>I comment on youth voices posts.</p> <p>I talk about my strengths and weaknesses as a learner and set goals to improve</p>	<p>I can summarize what I learned and connect it to the real world.</p> <p>I can respond to others comments about my work on youth voices.</p> <p>I write about my strengths and weaknesses as a learner and set goals to improve</p>	<p>I can summarize what I learned and mentor others to understand these ideas.</p> <p>I set high expectations for myself as a learner and work to achieve those goal.</p>