



Trinity Lutheran School Fifth Grade Science Essential Standards Chart

Essential Standards Chart: At Trinity Lutheran, we expect children to learn?

Grade: 5th Grade		Subject: Science				
Standard Description	Common Core Standards	Proficiency	Prerequisite Skill	Assessment	When Taught?	Extension Standards
What is the essential standard to be learned? Written in I Can Statements		What does proficiency look like? Provide an example and/or description.	What prior knowledge, skills, and/or vocabulary is/are needed for a student to master this standard?	What assessments will be used to measure student mastery?	When will this standard be taught?	What will we do when students have learned the essential standard(s)?
I can measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling or mixing substances, the total weight of matter is conserved.	5-PS1-2	Students are able to complete a project where they measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling or mixing substances, the total weight of matter is conserved.	Understanding of bar graph, circle graph, and line graph.	Project Rubric	CKSci Unit 1 : Investigating Matter	N/A
I can conduct an investigation to determine whether the mixing of two or more substances	5-PS1-4	Students can complete an investigation to determine whether the mixing of two or	Understanding of vocabulary such as heterogeneous, homogeneous, and mixture.	Project Rubric	CKSci Unit 1 : Investigating Matter	N/A

results in new substances.		more substances results in a new substance.				
I can develop a model to describe the movement of matter among plants, animals, decomposers, and the environment	5-LS2-1	Students can create a model to describe the movement of matter among plants, animals, decomposers, and the environment.	Understanding of vocabulary such as animals, plants, decomposer, and environment.	Project Rubric	CKSci Unit 2: Energy and Matter in Ecosystems	N/A
I can develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact.	5-ESS2-1	Students can create a model using an example to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact.	Understanding of vocab such as geosphere, biosphere, hydrosphere, and atmosphere.	Project Rubric	CKSci Unit 3- Modeling Earth's Systems	N/A
I can describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth	5-ESS2-2	Students can graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	Understanding of percentages and graphs. Understanding of vocabulary such as fresh water, salt water, and reservoir.	Measuring Assessment	CKSci Unit 4: Protecting Earth Resources	Students could use different types of graphs to complete this task and decide which type of graph was more useful for this task.
I can represent data in a graphical display to reveal patterns of daily changes in length and direction of shadows, day, and night and the seasonal appearance of some stars in the night sky.	5-ESS1-2	I can create a graph to reveal patterns of daily changes in length and direction of shadows, day, and night and the seasonal appearance of some stars in the night sky.	Understanding of the eight planets. Understanding of vocab such as shadow, revolution, rotation, day, night, and stars, Understanding of graphing.	Measuring Assessment	CKSci Unit 5: Astronomy	Students could represent data in multiple graphical displays and decide which one was most useful.

I can demonstrate understanding of human growth and development	MS-LS-1	Students can explain the 5 stages of human growth and development as well as go into detail about each stage.	Understanding the 5 stages of human growth and development. Having knowledge about each of the five stages.	Measuring Assessment		I can collect more knowledge of human growth and development.
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