



First Grade Science

Purpose

The rubrics help teachers and students authentically monitor growth and progress toward end-of-the-year learning standards. They support district consistency across teachers and grading practices. The rubrics provide a broad lens to the intricate and multifaceted learning that takes place throughout the school year. Additional ongoing assessments are utilized to provide detailed data regarding student progress.

Philosophy Statement

Waukee students will construct knowledge about the natural world through exploration, questions, and critical thinking. Learners will utilize process skills and innovative thinking to collaboratively participate in ongoing scientific inquiry for the future.

First Grade Science

Statement	Exceeds	Secure	Developing	Beginning
Observes patterns through organization, classification and relationships. (Patterns)	Observes patterns within nature and human made designs to describe phenomena (happenings) and guide classification.*	Observes patterns within nature to describe phenomena (happenings).	Observes and describes patterns within nature and human-made designs.	Observes or describes patterns within nature or human-made designs.
Investigates and explains causal relationships through mechanisms across contexts. (Cause and Effect)	Designs, investigates and explains cause and effect relationships across contexts.*	Investigates and explains cause and effect relationships across contexts.	Identifies and explains cause and effect relationships across contexts.	Identifies cause and effect relationships across contexts.
Tracks the transfers of energy and matter within, into, or out of any system. (Energy and Matter)	Relates understanding of states of matter to a larger system or process.*	Explores and describes how states of matter change due to outside influences/factors.	Describes matter according to physical properties.	Classifies objects according to states of matter.
Analyzes the structure and function of living and nonliving things. (Structure and Function)	Alters structures of an object to improve function.*	Compares and contrasts structures and functions of similar objects.	Describes the relationship between structure and function.	Describes a function of a structure.

The asterisk (*) denotes one possible way a student could demonstrate enrichment or extension that would be designated as Exceeds Standard.