



Science Standards Rubric – 3rd Grade

**Note: All Science Standards feed into one line on the report card that reads: “Understands science processes, skills and content as appropriate for the grade level.” (Science is also integrated into English Language Arts Standards)**

These rubrics are to help score students' performance based on New AZ Science Standards.

Physical Science					
Standard	Trimester Reported*	1 Minimal	2 Developing	3 Proficient	4 Advanced
3.P2U1.1	1	Identifies sources of light.	Asks questions about light, objects, and the human eye.	Ask questions and investigate the relationship between light, objects, and the human eye.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.
3.P2U1.2	1	Identifies sources that produce sound.	Describes properties of sound waves. (Ex: amplitude and wavelength.)	Plan and carry out an investigation to explore how sound waves affect objects at varying distances.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.
3.P4U1.3	1	Defines a grade level appropriate description of energy. (Ex: power that can be moved.)	Uses models or diagrams to describe light or sound waves.	Develop and use models to describe how light and sound waves transfer energy.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.



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Earth & Space Science					
Standard	Trimester Reported*	1 Minimal	2 Developing	3 Proficient	4 Advanced
3.E1U1.4	2	Identifies Earth’s major systems (geosphere, hydrosphere, atmosphere, and biosphere)	Describe how energy cycles through Earth’s four major systems and cause Earth’s processes.	Construct an explanation describing how the Sun is the primary source of energy impacting Earth systems. (geosphere, hydrosphere, atmosphere, and biosphere)	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.

Life Science					
Standard	Trimester Reported*	1 Minimal	2 Developing	3 Proficient	4 Advanced
3.L1U1.5	3	Identify internal and external structures of plants and animals.	Describe how plants and animals have internal and external structures that have functions such as growth, survival, behavior, and reproduction	Develop and use models to explain that plants and animals (including humans) have internal and external structures that serve various functions that aid in growth, survival, behavior, and reproduction.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.
3.L2U1.6	3	Conducts observations about plants or animals reacting to stimuli.	Describes how plants and animals react to stimuli.	Plan and carry out investigations to demonstrate ways plants and animals react to stimuli.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.



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3.L2U1.7	2	Identifies energy roles in a food web.	Uses system models or diagrams to describe flow of energy in a food web.	Develop and use system models to describe the flow of energy from the Sun to and among living organisms.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.
3.L2U1.8	3	Identifies needs of survival for organism. (Ex: food, water, air, nutrients from soil, etc..)	Collects appropriate evidence about how organisms such as plants or animals are interdependent.	Construct an argument from evidence that organisms are interdependent.	Work independently to apply content knowledge or skills to a greater depth than expected by the standard.