

# Fourth Grade Science Rubric

## Physical Science

	<b>SN</b>	<b>P</b>	<b>M</b>
Recognizes the total amount of matter is conserved when it undergoes a change.	Limited ability to recognize that the total amount of matter is conserved when it undergoes a change.	Inconsistent ability to recognize that the total amount of matter is conserved when it undergoes a change.	Consistent ability to recognize that the total amount of matter is conserved when it undergoes a change.
Understands that energy transfers from hot objects to cold objects as heat.	Limited ability to understand that energy transfers from hot to cold objects.	Inconsistent ability to understand that energy transfers from hot to cold objects.	Consistent ability to understand that energy transfers from hot to cold objects.
Understands electric circuits require a complete conductive loop to transfer electrical energy.	Limited ability to understand electric circuits require a complete loop to transfer electrical energy.	Inconsistent ability to understand electric circuits require a complete loop to transfer electrical energy.	Consistent ability to understand electric circuits require a complete loop to transfer electrical energy.

## Earth & Space Science

	<b>SN</b>	<b>P</b>	<b>M</b>
Identifies characteristics of and landforms on the Earth's surface.	Limited ability to identify characteristics of and landforms on the Earth's surface.	Inconsistent ability to identify characteristics of and landforms on the Earth's surface.	Consistent ability to identify characteristics of and landforms on the Earth's surface.
The surface of Earth changes due to weathering, erosion and deposition.	Limited ability to identify weathering, erosion and deposition as processes that change the Earth's surface.	Inconsistent ability to identify weathering, erosion and deposition as processes that change the Earth's surface.	Consistent ability to identify weathering, erosion and deposition as processes that change the Earth's surface.

## Life Science

	<b>SN</b>	<b>P</b>	<b>M</b>
Understands that changes to the environment can be beneficial or harmful to an organism's survival.	Limited ability to understand that changes to the environment can be beneficial or harmful to an organism's survival.	Inconsistent ability to understand that changes to the environment can be beneficial or harmful to an organism's survival.	Consistent ability to understand that changes to the environment can be beneficial or harmful to an organism's survival.
Uses fossil evidence and living organisms to show relationship between biotic and abiotic factors.	Limited ability to understand fossil evidence and living organisms show a relationship between biotic and abiotic factors.	Inconsistent ability to understand fossil evidence and living organisms show a relationship between biotic and abiotic factors.	Consistent ability to understand fossil evidence and living organisms show a relationship between biotic and abiotic factors.
Compares and contrasts fossils to one another and to present-day organisms.	Limited ability to describe the compare and contrast fossils to one another and to present-day organisms.	Inconsistent ability to describe the compare and contrast fossils to one another and to present-day organisms.	Consistent ability to describe the compare and contrast fossils to one another and to present-day organisms.

## Inquiry Skills

	<b>SN</b>	<b>P</b>	<b>M</b>
Understands and applies inquiry process and uses grade-appropriate scientific terminology to explain concepts with clarity.	Limited ability to understand and apply the inquiry process and to use grade-appropriate scientific terminology to explain concepts with clarity.	Inconsistent ability to understand and apply the inquiry process and to use grade-appropriate scientific terminology to explain concepts with clarity.	Consistent ability to understand and apply the inquiry process and to use grade-appropriate scientific terminology to explain concepts with clarity.