

The Grade 5 North Carolina Essential Standards for Science include seven strands, or topics, for students to learn. North Carolina administers an End of Grade (EOG) assessment in science to monitor students' progress in learning about these topics. This resource is provided to assist your fifth grader in preparing for the science EOG.

Force & Motion

5.P.1 Understand force, motion, and the relationship between them.

StudyJams: [Force and Motion](#)

Read more about it on Big Universe (*requires student login*): [Investigating Forces and Motion](#)

Energy: Conservation & Transfer

5.P.2 Understand the interactions of matter and energy and the changes that occur.

StudyJams: [The Water Cycle](#)

Read more about it on Big Universe (*requires student login*): [The Water Cycle](#)

Matter: Properties & Change

5.P.3 Explain how the properties of some materials change as a result of heating and cooling.

StudyJams: [Solids, Liquids, Gases](#); [Heat](#) (conduction, convection, radiation)

Read more about it on Big Universe (*requires student login*): [Investigating Heat](#)

Earth Systems, Structures & Processes

5.E.1 Understand weather patterns and phenomena, making connections to the weather in a particular place and time.

StudyJams: [Weather Instruments](#); [Weather and Climate](#); [Seasons](#); [Clouds and Precipitation](#); [Air Masses and Fronts](#); [Air Pressure and Wind](#)

Read more about it on Big Universe (*requires student login*): [Climate and Weather](#)

Structures & Functions of Living Organisms

5.L.1 Understand how the structures and systems of organisms (to include the human body) perform functions necessary for life.

StudyJams: [The Human Body](#); [Circulatory System](#); [Digestive System](#); [Muscular System](#); [Nervous System](#); [Respiratory System](#); [Skeletal System](#)

Read more about it on Big Universe (*requires student login*): [Weird, True Facts: Human Bodies](#)

Ecosystems

5.L.2 Understand the interdependence of plants and animals with their ecosystem.

StudyJams: [Ecosystems \(Terrestrial\)](#); [Aquatic Ecosystems](#); [Photosynthesis](#); [Food Chains](#); [Food Webs](#); [Population Growth](#)

Read more about it on Big Universe (*requires student login*): [How Ecosystems Work](#)

Evolution & Genetics

5.L.3 Understand why organisms differ from or are similar to their parents based on the characteristics of the organism.

StudyJams: [Heredity](#)

Read more about it on Big Universe (*requires student login*): [Pass It On!](#)