

**CLAY COMMUNITY SCHOOLS – CURRICULUM SCIENCE STANDARDS
KINDERGARTEN**

QUARTER 1

Earth and Space Science (ESS)	
	K.ESS.1 Make observations to determine the effect of sunlight on Earth’s surface and use tools and materials to design and build a structure to reduce the warming effect on Earth's surface.
	K.ESS.2 Describe and compare objects seen in the night and day sky, observing that the sun and moon move across the sky.
	K.ESS.3 Investigate the local weather conditions to describe patterns over time.
	K.ESS.4 Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.

QUARTER 2

Physical Science (PS)	
	K.PS.1 Plan and conduct an investigation using all senses to describe and classify different kinds of objects by their composition and physical properties. Explain these choices to others and generate questions about the objects.
	K.PS.2 Identify and explain possible uses for an object based on its properties and compare these uses with other students’ ideas.
	K.PS.3 Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.
	K.PS.4 Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

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QUARTER 3

Engineering (E)
K-2.E.1 Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.
K-2.E.2 Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve an identified problem.
K-2.E.3 Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.

QUARTER 4

Life Science (LS)
K.LS.1 Describe and compare the growth and development of common living plants and animals.
K.LS.2 Describe and compare the physical features of common living plants and animals.
K.LS.3 Use observations to describe patterns of what plants and animals (including humans) need to survive.