

Grade: 3
Subject area: Science

Insert Category Here	Q1	Q2	Q3	Q4
Science as Inquiry				
Uses standard and non-standard systems of classification				
Use the scientific process with teacher guidance and modeling	I	D	D	D
Make predictions and inferences based on observation				
Conducts simple investigations	D	D	D	D
Measure weight, mass, volume, and temperature using various devices to collect data	I	D	D	D
Choose the appropriate unit and device for gathering scientific data	I	D	D	D
Collect, organize, display, and analyze data in a variety of forms	I	D	D	D
Know that different people may interpret the same set of observations differently	I			
Physical Science				
Know that objects are classified by properties	D			
Know properties can be measured	D			
Investigate magnetic attraction to steel and iron materials			P	
Know that when a force is applied to an object, the object either speeds up, slows down, or goes in a different direction			P	
Know the relationship between the strength of a force and its effect on an object			P	
Investigate how changing the weight, size, shape, or material of an object will change the way it moves through the air			P	
Discover that objects that travel through the air are acted upon by the forces of thrust, lift, drag, and gravity			P	
Identify the six simple machines			P	
Discover that simple machines can reduce the effort needed to perform work			P	
Evaluate that simple machines can be combined in different ways to create complex machines			I	
Life Science				
Recognize and discuss the value of the human family (*2)			D	
Know different ways living things can be grouped	P			
Know that plants and animals progress through life cycles of birth, growth and development, reproduction, and death: the details of these life cycles are different for different organisms	I			
Describe the differences between insects and spiders				P
Identify the life cycle of an insect				P
Infer that insects can be beneficial or harmful				P
Evaluate that some insects are social insects				P
Discover that insect adaptations help them survive				P
Observe how animals adapt to their habitats	P			
Explain that animal adaptations are a result of interaction with the environment	P			
Describe how organisms' adaptive characteristics affect their survival	P			
Explain that a predator is an animal that catches and eats other animals(pre)	P			
Identify that an extinct organism is one that no longer lives on Earth	P			
Explain that an endangered animal is a kind of animal that is in danger of becoming extinct	P			
Explain that certain animals are either threatened, endangered, or extinct	I			
Earth and Space Science				
Describe that water is used in many ways		I		
Explain that the quality of water is affected by many factors		I		

Explain that the force of water can impact daily life, landforms, etc		I		
Relate that the water cycle consists of evaporation, condensation, precipitation, and the accumulation of surface and ground water		P		
Identify rain, snow, hail, and sleet as forms of precipitation		P		
Identify the Sun as the source of energy that drives the water cycle		P		
Know that the Sun provides the light and heat necessary to maintain the temperature of the Earth		D		
Apply that weather and climate affect life		P		
Relate that a cloud or fog are a large collection of tiny water droplets formed around dust particles		P		
Identify stratus, cumulus, and cirrus as the three main categories of clouds		P		
Observe that weather maps use symbols to display weather data		I		
Explain that technology assists meteorologist in making forecasts		I		
Know that air is a substance that surrounds us, takes up space, and moves around as wind		P		
Infer that the tilt of the Earth's axis in relation to the Sun causes the seasons		P		
Science and Technology				
Recognize that inventions are a result of science			D	
Recognize that past, present, and future technologies can affect our daily lives			D	
Investigate how different types of materials are used for different functions			I	
Infer that the properties of materials can be used to make choices in creating models and structures			I	
Investigate how different materials have different strengths			I	
Investigate how the stability and strength of a structure is affected by its shape				
Discover that people use a process to design and develop a product				
Show that product design is based on human needs				
Relate that design, structure, and construction must be considered when usable products are developed				
Science in Personal and Social Perspective				
Articulate basic human rights and responsibilities (*3)			D	
Identify oneself as belonging to a family of global people where there are many differences (*6)			D	
Participate in service projects and identify these with the Christian community (*2)			D	
Explain how the environment is God's creation and ours to respect				P
Demonstrate that we all have a role to play in preserving the environment				I
Give examples from daily life for conserving the environment				I
Illustrate that there are many ways to conserve energy				I
Identify that Reduce, Reuse, and Recycle are ways to reduce waste				I
Discover that humans have an impact on local, regional, and global environments and a responsibility for their protection				I
History and Nature of Science				
Recognize that science is a part of everyday life	P			

I: Introduced D: Developing P: Proficient