

Wells Junior High School Course Summary Template

Name of Course: Grade 5 Science

COURSE OVERVIEW		
Summary: Grade 5 science is an half year course designed to introduce students to key topics in science.		
Unit of Study	Essential Question(s)	Content/Skill/Concept
Interdependent Relationships in Ecosystems	Why do some animals form groups to help members survive? How do fossils provide evidence of the organism and the environment in which they lived long ago? How do organisms and their habitat depend on one another? How can introducing or taking away species change the movement of matter and energy in a habitat? Why do changes in habitats affect the organisms living there?	Social interactions and group behavior Ancestry and Diversity Adaptation Biodiversity
Inheritance and Variation of Traits: Life Cycles and Traits	What do all organism life cycles have in common? What is evidence that plants and animals have traits inherited from parents and that variation of these traits exist in a group of similar organisms? Can traits be influenced by the environment? How do the variation of traits among individuals of the same species provide advantages?	Growth and development Inheritance and variation of traits Adaptation Natural Selection
Matter and Energy in Organisms and Ecosystems	How does energy in animals' food come from the sun? Where do plants primarily get the materials they need for growth? How does matter move among plants, animals, decomposers, and the environment?	Energy flow in organisms Interdependent relationships through food webs Cycles of matter and energy in ecosystems

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Engineering Design	Can you create a simple design that follows a need that includes specific criteria? Can you test a problem and find multiple solutions to meet the criteria? Can you plan and create a fair test following the scientific method?	Defining engineering problems Developing possible solutions to an engineering problem by testing Following the Scientific Method
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