

Primary Thematic Project-Based Curriculum

School-Wide Theme: Connections

Investigations

Guiding Questions

Project-Based	Classification	Human Body	Weather	Simple Machines
<ul style="list-style-type: none"> • What is a team? • What is a leader? • Characteristics of a leader? • What does it mean to be a part of a community? • How do you lead a group? Should everyone lead? • What are effective forms of communication? • What is your part in a team? • How do individual behaviors affect others? • What is effective time management? • How do I know if I am producing quality work? • What is a question? • How can you show your learning? • How can you teach about what you've learned? 	<ul style="list-style-type: none"> • How do scientists figure things out? • What tools do scientists use? • What is a home? • What are you connected to? • What is a plant? • What is an animal? • What do they need to survive? • What ways do animals depend on other animals and plants? • Where do plants get the food and water they need to survive? • What plants and animals live in Prescott? • How are plants and animals affected by humans? 	<ul style="list-style-type: none"> • What do you need to survive? • How do systems work together? • What is a system? • What is digestion? • What do we use our brain for? • Where does our food go, why do we have to eat? • What does our heart do? 	<ul style="list-style-type: none"> • What is weather? • How does weather change? • What is the weather like in Prescott? • What types of weather have you experienced? • How does weather affect you? How do I describe what the weather is like today? • How do I use patterns and information to make predictions about the weather? 	<ul style="list-style-type: none"> • What is a simple machine? • How do they work? • What is force and movement? • How do simple machines make work easier? • Where do you find simple machines in your environment? • How does friction affect motion? • What is work?

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Learning Targets

Project-Based	Classification	Human Body	Weather	Simple Machines
<p><u>Enduring Understandings:</u></p> <ul style="list-style-type: none"> Independently gather and use materials in the classroom. Communicate effectively with a group. Be an active member of a team. Manage time effectively. Be able to self-assess work habits. <p><u>Key Learning Experiences:</u></p> <ul style="list-style-type: none"> Crossing the river of lava. Getting multiple balls to the center of a parachute simultaneously. Transfer of balls from parachute to container. Keeping multiple balls in the air without touching the ground. 	<p><u>Enduring Understandings:</u></p> <ul style="list-style-type: none"> Animals can be classified into groups. How animals have adapted to their environment. How to document nature through observation <p><u>Key Learning Experiences:</u></p> <ul style="list-style-type: none"> Nature observations Keeping a journal Highlands Center for Natural History Butterfly Wonderland 	<p><u>Enduring Understandings:</u></p> <ul style="list-style-type: none"> Identify components of familiar systems. Identify that a system consists of multiple parts or subsystems. Understand that parts of the body work independently. Identify the major parts of the digestive, respiratory and circulatory system. Describe the basic functions of the digestive, respiratory and circulatory systems. Understand muscles and bones help the body move. <p><u>Key Learning Experiences:</u></p> <ul style="list-style-type: none"> Arizona Science Museum 	<p><u>Enduring Understandings:</u></p> <ul style="list-style-type: none"> Identify layers of atmosphere including where weather takes place. Demonstrate sun's energy effects on weather. Identify different kinds of clouds & types of weather. Assemble water cycle book Discuss water cycle including water vapor, clouds, condensation and evaporation. Compare a cold front with a warm front. Assemble variety of weather instruments to measure and record? <p><u>Key Learning Experiences:</u></p> <ul style="list-style-type: none"> Weather Observations Creating visuals to understand key concepts. Using a weather station to track weather 	<p><u>Enduring Understandings:</u></p> <ul style="list-style-type: none"> Understand how force is used to get work done. Summarize why machines make work easier. Use a wheel and axle to get work done. Design and create an inclined plane. Demonstrate how a pulley is used to carry a load. Operate a screw and screwdriver to connect 2 boards. <p><u>Key Learning Experiences:</u></p> <ul style="list-style-type: none"> Create a derby car

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Topics

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<ul style="list-style-type: none"> Active Listening How to ask questions Place-based learning Collaborative group work Material management Time management Quality of Craftsmanship Presentation of knowledge Communication 	<ul style="list-style-type: none"> Taxonomy Habitat Ecosystems Niches Interdependence Changes and adaptations Animal Movement Monarch life cycle 	<ul style="list-style-type: none"> Digestive system Skeletal system Muscular system Nervous system Respiratory system Circulatory System 	<ul style="list-style-type: none"> Clouds Wind Water cycle Pressure systems Natural disasters How weather affects people Weather patterns Local weather Sun 	<ul style="list-style-type: none"> axle pulley lever gears force fulcrum wheel movement

Projects

Project-Based	Classification	Human Body	Weather	Simple Machines
<p><u>Animal Antics group project</u></p> <ul style="list-style-type: none"> Team building games Parachute Lava River Undercover Activity Hide and Seek Activity 	<ul style="list-style-type: none"> Animal Kingdom Game; classify animals based upon their characteristics. Documentation of nature based observation, using the 5 senses. Scientific drawings of caterpillar, pupae and butterfly. Monarch calendar Who ate my food? Monarch habitat wall mural. Make a caterpillar book 	<ul style="list-style-type: none"> Create own layered human body. Collaborative group project based upon inquiry questions. Science Fair Project 	<ul style="list-style-type: none"> Independent inquiry based projects. Record weather daily Cloud journal 	<ul style="list-style-type: none"> Rubber band derby cars

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Assessment

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<ul style="list-style-type: none"> • Completion of game as an effective team • Completion of activities 	<ul style="list-style-type: none"> • Design and create a habitat for local species • Compare, analyze, and classify animals 	<ul style="list-style-type: none"> • Present a project that clearly answers the groups' "I wonder...." question 	<ul style="list-style-type: none"> • Present a project that clearly answers the groups' "I wonder...." question 	<ul style="list-style-type: none"> • Rubber Band Derby

Multiple Intelligences

Project-Based	Classification	Human Body	Weather	Simple Machines
<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Bodily Kinesthetic • Naturalist • Verbal Linguistic 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Bodily Kinesthetic • Naturalist • Verbal Linguistic • Visual Spatial 	<ul style="list-style-type: none"> • Interpersonal • Intrapersonal • Bodily Kinesthetic • Verbal Linguistic • Visual Spatial 	<ul style="list-style-type: none"> • Intrapersonal • Interpersonal • Naturalist • Visual/Spatial • Kinesthetic • Logical/Mathematical 	<ul style="list-style-type: none"> • Intrapersonal • Interpersonal • Visual/Spatial • Kinesthetic • Logical/Mathematical

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Dance & Visual Arts

<u>First & Second Quarters:</u>	<u>Third Quarter:</u>	<u>Fourth Quarter:</u>
<p><u>Animal Discovery</u></p> <ul style="list-style-type: none">• Create a costume for an animal to wear• Design and animal habitat• Act out the animal within the habitat	<p><u>Magic School Bus</u></p> <ul style="list-style-type: none">• Learn songs, movement and dance that connects to Human Body and Weather standards• Present human body and weather projects to audience	<p><u>Simple Machine Derby</u></p> <ul style="list-style-type: none">• Create and present a derby car