





Fifth Grade Science Curriculum Map for WPA 2009-2010

Content	Time	Skills	Assessments
<p>Chemical and physical changes in matter</p> <ol style="list-style-type: none"> Matter is neither created nor destroyed Evaluate evidence of physical change Investigate evidence for changes in matter that occur during chemical reaction 	<p>August thru September (15 Class Hours)</p>	<ul style="list-style-type: none"> explain matter, states of matter & physical properties compare weights of parts & whole compare weights after freezing or melting describe physical changes in substance before and after change occurs dissolve solid in liquid & compare weights compare changes in substances that indicate physical change identify observable evidence of a chemical change investigate chemical changes when total weight is unchanged explain why total weight is less than its reactants when gas is produced during chemical change gives examples of chemical changes in daily life compares physical changes to chemical changes gives possible explanation for changed results when one material is changed in a chemical reaction 	<ul style="list-style-type: none"> Pre-assessment  Written lab reports Science notebook or journal Tests Student prepared demonstration
<p>Forces that reshape Earth's surface</p> <ol style="list-style-type: none"> Weathering and erosion Effects of volcanoes, earthquakes and uplift on Earth's surface Geological time and the relation to Earth's surface 	<p>October thru November (20 Class Hours)</p>	<ul style="list-style-type: none"> identify physical land features identify objects, processes & forces that weather and erode Earth's surface describe how geological features are changed through erosion identify specific geological features formed by volcanoes, earthquakes & uplift give examples of types of landforms that are formed by volcanoes, earthquakes and uplift 	<ul style="list-style-type: none"> Pre-assessment  Student notebook/journal Participation in class discussion and activities Student project Tests


		<ul style="list-style-type: none"> describe how volcanoes, earthquakes and uplift change landforms give examples of how technology is used to predict volcanoes & earthquakes explain the relationship between time and specific geological changes explain how layers of exposed rock, are the result of natural processes acting over long periods of time describe the role of deposition in the processes that change Earth's surface use a timeline to identify the sequence and time required for building and breaking down of geologic features on Earth describe and justify how the surface of Earth would appear if there were no mountain uplift, weathering or erosion 	
<p>Magnets and magnetic fields</p> <ol style="list-style-type: none"> Behavior of magnetism using magnets. Magnetic fields 	December thru January (18 Class Hours)	<ul style="list-style-type: none"> understand and investigate the properties of magnetism (attracting & repelling) compare various types of magnets compare permanent and electromagnets research & report uses of magnets supported by sound scientific principles compare magnetic fields of various types of magnets compare Earth's magnetic field to the magnetic field of a magnet construct a compass and explain how it works determine comparative strengths of Earth's magnetic field with that of a magnet 	<ul style="list-style-type: none"> Pre-assessment  Classroom participation Student notebook/journal Test
<p>Static and current electricity</p> <ol style="list-style-type: none"> Behavior of static electricity Behavior of current electricity 	February thru March (18 Class Hours)	<ul style="list-style-type: none"> recognize occurrences of static electricity in everyday life describe relationship of static electricity and lightning observe & describe behavior of objects 	<ul style="list-style-type: none"> Pre-assessment  Classroom participation Student notebook/journal Functioning circuit

		charged with static electricity <ul style="list-style-type: none"> investigate & compare amounts of static charged produced by various objects draw and label components of a complete circuit, build it, varying the components predict effects of changing components in an electric circuit investigate properties of materials as insulators and conductors 	<ul style="list-style-type: none"> Test
--	--	---	--

Inherited Traits

1. Traits are transferred from parent organism to offspring April thru May (16 Class Hours)
2. Variations of parents' traits may aid survival in a given environment

- identify various traits
- collect & organize data on a given set of traits
- identify similar physical traits of a parent organism and its offspring
- compare initially non-similar offspring to parent organisms (tadpoles-frogs, seeds-vegetables)
- contrast inherited traits and non-inherited traits
- investigate variations and similarities in plants
- explain and give examples of adaptations
- compare traits of a similar species for physical abilities, instinctual behaviors and specialized body structures
- identify connections between an environment, an organisms physical attributes and a species survival advantage
- research a specific plant or animal to report how specific physical attributes provide an advantage for survival in a specific environment

- Pre-assessment 
- Class participation
- Student notebook/journal
- Research project
- Test