

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.1 Field & Laboratory Investigations: Environmentally Appropriate & Ethical (A) demonstrate safe practices during field and laboratory investigations</p>	<p>Prerequisites</p> <p>4.1 Field & Laboratory Investigations: Environmentally Appropriate & Ethical (A) demonstrate safe practices during field and laboratory investigations</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.1 Field & Laboratory Investigations: Environmentally Appropriate & Ethical (A) demonstrate safe practices during field and laboratory investigations</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>goggles scientific method dispose mixture property black box model</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard F *personal health *characteristics and changes in populations *types of resources *changes and technology in local challenges</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.1 Field & Laboratory Investigations: (B) use and conserve resources and dispose or recycle materials</p>	<p>Prerequisites</p> <p>4.1 Field & Laboratory Investigations: (B) use and conserve resources and dispose or recycle materials</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.1 Field & Laboratory Investigations: (B) use and conserve resources and dispose or recycle materials</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>conserve wheel dispose circuit recycle switch solution design dissolving engineer siphon axel conceptual model bearing physical model friction collaborate hub traction</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard F *personal health *characteristics and changes in populations *types of resources *changes and technology in local challenges</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.2 Scientific Inquiry: Field & Laboratory (A) plan and implement descriptive and simple investigations – ask well – defined questions, formulate hypotheses, select and use equipment and technology</p>	<p>Prerequisites</p> <p>4.2 Scientific Inquiry: Field & Laboratory (A) plan and implement descriptive investigations – ask well – defined questions, formulate hypotheses, select and use equipment and technology</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.2 Scientific Inquiry: Field & Laboratory (A) plan and implement investigative procedures – ask well – defined questions, formulate hypotheses, select and use equipment and technology</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>Controlled shadow orientation Variable compass sun Design direction thermometer Hypothesis elapsed time absorb scientific method heat sink reflect earth material energy transfer space heating passive solar energy active solar energy greenhouse effect</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard E *abilities of technological design *understanding about science and technology</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.2 Scientific Inquiry: Field & Laboratory (B) collect information – observe and measure</p>	<p>Prerequisites 4.2 Scientific Inquiry: Field & Laboratory (B) collect information – observe and measure</p>	
	<p>Subsequent Knowledge and Skills 6.2 Scientific Inquiry: Field & Laboratory (B) collect data – observe and measure</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	measurement solubility syringe indicator carbon dioxide mass controlled experiment range of tolerance surface area	FOSS Modules: <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 1	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry Standard E *abilities of technological design *understanding about science and technology	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.2 Scientific Inquiry: Field & Laboratory (C) analyze and interpret information to construct explanations from direct and indirect evidence</p>	<p>Prerequisites 4.2 Scientific Inquiry: Field & Laboratory (C) analyze and interpret information to construct explanations from direct and indirect evidence</p>	
	<p>Subsequent Knowledge and Skills 6.2 Scientific Inquiry: Field & Laboratory (C) analyze and interpret information to construct explanations from direct and indirect evidence</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	technology variable optimum model range of tolerance salt tolerance preferred environment black box conceptual model axel friction traction	models siphon physical wheel collaborate circuit switch design engineer bearing hub
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 1	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry Standard E *abilities of technological design *understanding about science and technology	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.2 Scientific Inquiry: Field & Laboratory (D) communicate valid conclusions</p>	<p>Prerequisites 4.2 Scientific Inquiry: Field & Laboratory (D) communicate valid conclusions</p>	
	<p>Subsequent Knowledge and Skills 6.2 Scientific Inquiry: Field & Laboratory (D) communicate valid conclusions</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>conclusion shadow results orientation collaborate compass range of tolerance sun elapsed time direction thermometer elapsed time solar energy heat sink energy transfers earth materials absorb reflect solar collector surface area</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard E *abilities of technological design *understanding about science and technology</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.2 Scientific Inquiry: Field & Laboratory (E) construct graphs, tablets, maps, charts to organize, examine, evaluate information</p>	<p>Prerequisites</p> <p>4.2 Scientific Inquiry: Field & Laboratory (E) construct graphs, tables, maps, charts to organize, examine, evaluate information</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.2 Scientific Inquiry: Field & Laboratory (E) construct graphs, tables, maps, charts to organize, examine evaluate data</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>bar graph mean line graph median pictograph model technology range solvent solute saturated solution solubility</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard E *abilities of technological design *understanding about science and technology</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.3 Critical Thinking and Scientific Problem-Solving (A) analyze, review, critique scientific explanations – hypotheses, theories as to strengths and weaknesses</p>	<p>Prerequisites 4.3 Critical Thinking and Scientific Problem-Solving (A) analyze, review, critique scientific explanations – hypotheses, theories as to strengths and weaknesses</p>	
	<p>Subsequent Knowledge and Skills 6.3 Critical Thinking and Scientific Problem-Solving (A) analyze, review, critique scientific explanations – hypotheses, theories as to strengths and weaknesses</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	theory hypothesis consensus variable viable	FOSS Modules: <ul style="list-style-type: none"> Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 1	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry Standard G *science as a human endeavor *nature of science *history of science	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.3 Critical Thinking and Scientific Problem-Solving (B) draw inferences on promotional material for products and services</p>	<p>Prerequisites 4.3 Critical Thinking and Scientific Problem-Solving (B) draw inferences on promotional materials for products and services</p>	
	<p>Subsequent Knowledge and Skills 6.3 Critical Thinking and Scientific Problem-Solving (B) draw inferences on promotional materials for products and services</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>viable optimum inferences shadow orientation compass sun direction</p> <p>thermometer elapsed time earth materials heat sink solar energy energy transfer</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.3 Critical Thinking and Scientific Problem-Solving (C) represent natural world using models, identify limitations</p>	<p>Prerequisites 5.3 Critical Thinking and Scientific Problem-Solving (C) represent natural world using models, identify limitations</p>	
	<p>Subsequent Knowledge and Skills 5.3 Critical Thinking and Scientific Problem-Solving (C) represent natural world using models, identify limitations</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	model conceptual model physical model black box	FOSS Modules: <ul style="list-style-type: none"> • Solar Energy • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 1	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.3 Critical Thinking and Scientific Problem-Solving (D) evaluate research on scientific thought, society, environment</p>	<p>Prerequisites 4.3 Critical Thinking and Scientific Problem-Solving (D) evaluate research on scientific thought, society, environment</p>	
	<p>Subsequent Knowledge and Skills 6.3 Critical Thinking and Scientific Problem-Solving (D) evaluate research on scientific thought, society, environment</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>environment environment factor variable controlled experiment brine shrimp salinity optimum viable</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p> <p>Standard G *science as a human endeavor *nature of science *history of science</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.3 Critical Thinking and Scientific Problem-Solving (E) connect science concepts with history of science and contributions of scientists</p>	<p>Prerequisites 4.3 Critical Thinking and Scientific Problem-Solving (E) connect science concepts with history of science and contributions of scientists</p>	
	<p>Subsequent Knowledge and Skills 6.3 Critical Thinking and Scientific Problem-Solving (E) connect science concepts with history of science and contributions of scientists</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	engineer astronomer geologist surface area	FOSS Modules: <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: (not tested)	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.4 Tools (A) collect and analyze information using tools</p>	<p>Prerequisites 4.4 Tools (A) collect and analyze information using tools</p>	
	<p>Subsequent Knowledge and Skills 6.4 Tools (A) collect, analyze, record information using tools</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>technology mode syringe mean thermometer median balance range compass aquarium indicator carbon dioxide</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective 1</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th (B) demonstrate repeated investigations increase reliability of results</p>	<p>Prerequisites (B) demonstrate repeated investigations increase reliability of results</p>	
	<p>Subsequent Knowledge and Skills (B) identify patterns in information – percent, average, range, frequency</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	variable reliability design engineer axle bearing friction hub traction wheel	FOSS Modules: <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective 1	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard A *abilities necessary to do science inquiry *understanding about scientific inquiry	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.5 Systems: Collection of Cycles, Structures, Processes (A) describe some cycles, structures, processes in simple systems</p>	<p>Prerequisites 4.5 Complex Systems & Parts (A) identify and describe roles of organisms in living systems and parts in nonliving objects</p>	
	<p>Subsequent Knowledge and Skills 6.5 Systems: Combination of Systems (A) identify and describe system resulting from combination of two or more systems</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>circuit switch siphon</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:2</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.5 Systems: Collection of Cycles, Structures, Processes (B) describe interactions that occur in simple systems</p>	<p>Prerequisites 4.5 Systems: Collection of Cycles, Structures, Processes (B) predict and draw conclusions when part of a system is removed</p>	
	<p>Subsequent Knowledge and Skills 6.5 Systems: Collection of Cycles, Structures, Processes (B) describe properties of a system differ from properties of parts</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>axle bearing friction hub wheel fraction siphon circuit witch</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments • Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:2</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfers of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.6 Change Occurs In Cycles (A) identify events and describe changes that occur on regular basis</p>	<p>Prerequisites</p> <p>4.6 Change Can Create Recognize Patterns (A) identify patterns of change (B) Illustrate certain characteristics of objects can remain constant when rotated, translated, reflected (C) use reflection to verify symmetry</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.14 Earth Systems: Structures & Functions (A) summarize rock cycle</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>aquariums compass terrariums direction drought surface area irrigation organisms shadow orientation sun</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:4</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfers of energy</p> <p>Standard D *structure of the earth system *earth's history *earth in the solar system</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.6 Change Occurs In Cycles (B) identify significance of water, carbon, nitrogen cycles</p>	<p>Prerequisites 4.6 Changes Can Create Recognizable Patterns (A) identify patterns of change such as in weather, metamorphosis and objects in the sky</p>	
	<p>Subsequent Knowledge and Skills 6.6 Change Occurs In Cycles (B) identify relationship between groundwater and surface water (C) describe components of the atmosphere oxygen, nitrogen, water vapor and identify role of atmospheric movement in water</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>greenhouse effect carbon dioxide/oxygen viable irrigate drought salinity evaporation carbon</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:4</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p> <p>Standard D *structures of the earth system *earth's history *earth in the solar system</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.6 Change Occurs In Cycles (C) describe and compare life cycles of plants and animals</p>	<p>Prerequisites 4.6 Change Can Create Recognizable Patterns (A) Identify patterns of change</p>	
	<p>Subsequent Knowledge and Skills 7.10 The student knows that species can change through generations (A) identify that sexual reproduction results in more diverse offspring and asexual reproduction results in more uniform offspring</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	germinate variable egg pupae larvae viable optimum indicator aquarium salinity beetle irrigate germinate metamorphosis germination environment terrarium organism drought photosynthesis environmental factor range of tolerance brine shrimp salt sensitive salt tolerant controlled experiment	FOSS Modules: <ul style="list-style-type: none"> • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective:2	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard B *properties and changes of properties in matter *motions and forces *transfers of energy Standard C *structure and function in living systems *reproduction and heredity *regulation and behavior *populations and ecosystems *diversity and adaptations of organisms	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.7 Physical Properties of Substances (B) demonstrate some mixtures maintain physical properties of ingredients</p>	<p>Prerequisites</p> <p>4.11 Natural World: Earth Materials and Objects in the Sky (A) test properties of soils</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.7 (A) demonstrate new substances can be made combining two or more substances, compare properties of new substances to originals</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	reactant	FOSS Modules: <ul style="list-style-type: none"> Mixtures and Solutions
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective:3	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard B *properties and changes of properties in matter *motions and forces *transfer of energy	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.7 Physical Properties of Substances (C) recognize that changes may occur in physical properties of ingredients of solutions</p>	<p>Prerequisites 4.7 Physical Properties of Substances (A) observe and record changes in states of matter caused by heat (B) identify matter – liquids, solids, gases</p>	
	<p>Subsequent Knowledge and Skills 6.7 Physical & Chemical Properties of Substances (A) demonstrate new substances can be made combining two or more substances, compare</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>crystal evaporation chemical reaction reactant solvent solute saturated solution</p>	<p>FOSS Modules: • Mixtures and Solutions</p>
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:3</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.7 Physical Properties of Substances (D) observe and measure characteristics properties of substances that remain constant</p>	<p>Prerequisites 4.7 Physical Properties of Substances (A) test properties of soils</p>	
	<p>Subsequent Knowledge and Skills 6.7 Physical Properties of Substances (B) classify substances by physical and chemical properties</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>texture gravel volume</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Mixtures and Solutions
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 3</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.8 Energy Occurs in Many Forms (A) differentiate among forms energy – light, heat, electrical, solar</p>	<p>Prerequisites 4.7 Matter Has Physical Properties (A) observe and record changes in the states of matter caused by the addition or reduction of heat</p>	
	<p>Subsequent Knowledge and Skills 6.8 Matter & Energy: Interactions (A) define matter and energy</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	sun heat sink solar energy solar collector space heating shadow orientation greenhouse effect Passive solar energy Active solar energy	FOSS Modules: <ul style="list-style-type: none"> Solar Energy
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective:3	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard B *properties and changes of properties in matter *motions and forces *transfer of energy	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.8 Energy Occurs in Many Forms (B) identify and demonstrate examples of reflected light and refracted light</p>	<p>Prerequisites</p> <p>4.6 The student knows that change can create recognizable patterns (B) illustrate that certain characteristics of an object can remain constant even when the object is rotated like a spinning top, translated like a skater moving in a straight line, or reflected on a smooth surface (C) use reflections to verify that a natural object has symmetry</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.8 Energy Occurs in Many Forms (B) explain and illustrate interactions between matter and energy in water cycle and decay of biomass</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>reflect refracted transparent absorb reflect solar collector space heating orientation greenhouse effect</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> Solar Energy
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 3</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.8 Energy Occurs in Many Forms (C) demonstrate electricity flows in circuits and produces heat, light, sound, and magnetic effects</p>	<p>Prerequisites</p> <p>4.7 Matter Has Physical Properties (A) observe and record changes in the states of matter caused by the addition or reduction of heat (B) conduct tests, compare data, and draw conclusions about physical properties of matter including states of matter, conduction, density, and buoyancy</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.8 Energy Occurs in Many Forms (C) describe energy flow in living systems – food chain, food webs</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>switch circuit energy transfers conceptual model physical model collaborate</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:3</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard B *properties and changes of properties in matter *motions and forces *transfer of energy</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th 5.8 Energy Occurs in Many Forms (D) verify vibrating objects produce sound</p>	<p>Prerequisites</p> 4.7 Matter Has Physical Properties (B) conduct tests, compare data, and draw conclusions about physical properties of matter including states of matter, conduction, density, and buoyancy	
	<p>Subsequent Knowledge and Skills</p> 6.8 Complex interactions between matter and energy (A) define energy	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	vibrate conceptual model physical model collaborate circuit switch variable	FOSS Modules: <ul style="list-style-type: none"> Models and Designs
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective:3	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard B *properties and changes of properties in matter *motions and forces *transfer of energy	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.10 Likeness between Offspring and Patterns Inherited or Learned from Parents (A) Identify traits inherited from parents to offspring in plants and animals (B) give examples of learned characteristics resulting from environmental influence</p> <p>4.9 Likeness between Offspring and Patterns Inherited or Learned from Parents (A) distinguish between inherited traits and learned characteristics (B) identify and provide examples of inherited traits and learned characteristics</p>	<p>Prerequisites 4.6 Change Can Create Recognizable Patterns (A) identify patterns of change (B) illustrate certain characteristics of objects can remain constant when rotated, translated, reflect (C) use reflection to verify symmetry</p> <p>5.10 Likeness between Offspring and Parents Inherited or Learned from Parents (A) identify traits inherited from parents to offspring in plants and animals (B) give examples of learned characteristics resulting from environmental influence</p> <p>Subsequent Knowledge and Skills 6.11 Species Change Trough Generations (A) identify changes in traits over several generations – natural occurrence and selective breeding (B) identify cells as structures containing genetic material (C) interpret role of genes in inheritance</p> <p>6.11 Species Change Through Generations (A) identify changes in traits over several generations – natural occurrence and selective breeding (B) identify cells as structures containing genetic material (C) interpret role of genes in inheritance</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	variable environmental factor isopod beetle preferred environment	FOSS Modules: <ul style="list-style-type: none"> • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebook	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment		TAKS/Other Assessments
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets		TAKS Objective: 2
Correlations/ Resources		
Additional Resources		National Science Standard
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com		Standard C *structure and function in living systems *reproduction and heredity *regulation and behavior *populations and ecosystems *diversity and adaptations of organisms

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.11 Past Events Affect Present and Future Events (A) identify and observe actions that require time for changes to be measurable – growth, erosion, dissolving, weathering, flow</p>	<p>Prerequisites</p> <p>4.10 Past Event Affect Present and Future Events (A) identify and observe effects of events that require time for changes to be noticeable</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.11 Past Events Affect Present and Future Events (C) identify forces that shape Earth – uplifting, movement of water, volcanic activity</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>environment factor germinate greenhouse effect solvent solute saturated solution absorb reflect solar collector surface area space heating orientation earth materials</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Mixtures and Solutions • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 4</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard D *structure of the earth system *earth’s history *earth in the solar system</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.11 Past Events Affect Present and Future Events (B) draw conclusions about “what happened before” using data</p>	<p>Prerequisites</p> <p>4.11 Past Events Affect Present and Future Events (B) draw conclusions about “what happened before”</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.11 Past Events Affect Present and Future Events (A) identify some changes in traits that can occur over several generations through natural occurrence and selective breeding (C) interpret the role of genes in inheritance</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>control shadow orientation compass sun direction</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective: 4</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard D *structure of the earth system *earth’s history *earth in the solar system</p>	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.11 Past Events Affect Present and Future Events (C) identify past events that led to formation of Earth’s resources</p>	<p>Prerequisites 5.10 Likeness between Offspring and Parents Inherited or Learned from Parents (A) identify traits inherited from parents to offspring in plants and animals</p>	
	<p>Subsequent Knowledge and Skills 6.11 Past Events Affect Present and Future Events (C) identify forces that shape Earth – uplifting, movement of water, volcanic activity</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	sun	FOSS Modules: • Environments
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective:4	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard D *structure of the earth system *earth’s history *earth in the solar system	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.12 Natural World: Earth Materials and Objects In the Sky (A) interpret how land forms result from constructive and destructive forces</p>	<p>Prerequisites</p> <p>4.11 Natural World: Earth Materials and Objects In the Sky (B) summarize the effects of the oceans on land</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.14 Structures and Functions of Earth Systems (A) summarize the rock cycle (B) identify relationships between groundwater and surface water in a watershed</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
<p>See clarifying activities at: www.utdanacenter.org/ssi/</p>	<p>thermometer elapsed time earth materials energy transfer heat sink solar energy absorb reflect solar collector surface area</p>	<p>FOSS Modules:</p> <ul style="list-style-type: none"> Solar Energy
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
<p>TEXTEAMS Introduction to Inquiry Science Notebooks</p>	<p>Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)</p>	<p>Language Arts: Journal Writing</p>
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
<p>Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets</p>	<p>TAKS Objective:4</p>	
Correlations/ Resources		
Additional Resources	National Science Standard	
<p>Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com</p>	<p>Standard D</p> <ul style="list-style-type: none"> *structure of the earth system *earth's history *earth in the solar system 	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.12 Natural World: Earth Materials and Objects In the Sky (B) describe processes responsible for coal, oil, gas and minerals</p>	<p>Prerequisites</p> <p>4.11 Natural World: Earth Materials and Objects In the Sky (B) summarize the effects of the oceans on land</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.14 Structures and Functions of Earth Systems (A) summarize the rock cycle (B) identify relationships between groundwater and surface water in a watershed</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	shadow orientation	FOSS Modules: <ul style="list-style-type: none"> • Solar Energy • Mixtures and Solutions
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 4	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard D *structure of the earth system *earth's history *earth in the solar system	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.12 Natural World: Earth Materials and Objects In the Sky (C) identify physical characteristics of Earth, compare to physical characteristics of moon</p>	<p>Prerequisites</p> <p>4.11 Natural World: Earth Materials and Objects In the Sky (C) identify the Sun as the major source of energy for the Earth and understand its role in the growth of plants, in the creation of winds, and in the water cycle</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.14 Structures and Functions of Earth Systems (A) summarize the rock cycle (B) identify relationships between groundwater and surface water in a watershed (C) describe components of the atmosphere including oxygen, nitrogen, and water vapor, and identify the role of atmospheric movement in weather change</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/		FOSS Modules: <ul style="list-style-type: none"> Solar Energy
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks Star Lab	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 4	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard D *structure of the earth system *earth's history *earth in the solar system	

SCIENCE INSTRUCTIONAL ALIGNMENT CHART

<p align="center">Grade 5th</p> <p>5.12 Natural World: Earth Materials and Objects In the Sky (D) identify gravity as force to keep planets and moon in orbit</p>	<p>Prerequisites</p> <p>4.11 Natural World: Earth Materials and Objects In the Sky (C) identify the Sun as the major source of energy for the Earth and understand its role in the growth of plants, in the creation of winds, and in the water cycle</p>	
	<p>Subsequent Knowledge and Skills</p> <p>6.13 Components of our solar system (B) identify characteristics of objects in our solar system including the Sun, planets, meteorites, comets, asteroids, and moons</p>	
Instructional Support		
Evidence of Student Learning	Key Vocabulary/Concepts/skills	Curriculum Resources
See clarifying activities at: www.utdanacenter.org/ssi/	shadow orientation	FOSS Modules: • Solar Energy
Professional Development	Support for LEP and other Special Populations	Interdisciplinary Connection
TEXTEAMS Introduction to Inquiry Science Notebooks Star Lab	Science Notebook FOSS Word Bank ESL Learning Strategies (Appendix)	Language Arts: Journal Writing
Assessment		
Evidences of Success/Classroom Assessment	TAKS/Other Assessments	
Student observation during activities (safety/observation checklist) Student science notebook or journal FOSS activity sheets	TAKS Objective: 4	
Correlations/ Resources		
Additional Resources	National Science Standard	
Texas Statewide Systemic Initiative www.utdanacenter.org/ssi/ FOSS Website www.fossweb.com	Standard D *structure of the earth system *earth's history *earth in the solar system	