

**Mansfield Independent School District
Grade: 7**

Instructional Unit: Nature of Science		
TEKS	TAKS Objective	Concept/Skill Taught
7.1 a-b 7.2 a-e 7.3 a-e 7.4 a-b 7.7 a	The student will demonstrate an understanding of the nature of science.	<p><u>Safety:</u> Safe use of equipment Safety rules Safety drills Follow verbal and written directions correctly</p> <p><u>Scientific method:</u> Proper use of method Construct and analyze various graphs, tables and charts (line, bar and pie graphs, w/y axis, dependent and independent variables, analyze different representation of the same data)</p> <p><u>Critical Thinking and Problem Solving:</u> Develop and/or critique or evaluate own work and work of others</p> <p><u>Tools and Inquiry Methods:</u> Select appropriate tools necessary for the task; use materials appropriately Use tools to collect data using accurate/precise metric measurement</p> <p><u>Physical/Chemical Properties:</u> Identify and demonstrate everyday examples of chemical phenomena.</p>

Language of Instruction				
mass/volume	graduated cylinder	bar graph	volume	physical/chemical property
physical/chemical change	metric units	wafting	theory	forensics
hypothesis	independent/ dependent/ controlled variable	patterns of change	triple beam balance	

Suggested Labs and Resources		
Gummy Bear Lab	Crime Scene Inv	Air Ball
Forensics Lab	Penny Lab	Lab Safety Pictures
Back Pack Forensics	Calvin and Hobbes	More than Just a Guess WS
Google Court TV for classroom		
Nutrition and Advertising		