

# Module Correlation Chart

## TEKS

### § 112.23. Science, Grade 7

- (a) General requirements. Students shall be awarded one unit of credit for successful completion of this course.
- (b) Introduction

Seventh Grade Science. Essential elements for Seventh Grade Science as described in this subsection shall be a developmentally appropriate laboratory/field-oriented course coordinating instruction in biology, chemistry, physics, and earth/space science, and shall include the follow essential elements:

TEKS Competencies by Module	Module
<b>(1) Manipulating laboratory materials and equipment. The student shall be provided opportunities to:</b>	
(A) manipulate objects, organism, and models;	1,3-5,9-10
(B) use materials and instruments;	1,4,9-10
(C) construct models; and	6-7
(D) practice safe lab techniques.	1,4,9-10
<b>(2) Acquiring scientific data and information. The student shall be provided opportunities to:</b>	
(A) observe properties and patterns of objects, organisms, models, phenomena, and events; and	1,3-4,9
(B) estimate and measure life, earth, and physical science processes and properties.	1,3-4,8-10
<b>(3) Sequencing, ordering, and classifying scientific data and information. The student shall be provided opportunities to:</b>	
(A) arrange time, events, and activities in sequential order;	1,3,7-10
(B) classify matter, forces, energy, organisms, actions, and events according to similarities and differences; and	1,3-5,7-10
(C) design graphs, tables, maps, and other visuals.	2,5,7,9-10
<b>(4) Communicating scientific data and information. The student shall be provided opportunities to:</b>	
(A) identify and describe objects, organisms, events, and processes;	1,3-4,7-10
(B) read data from graphs, tables, maps, and other visuals; and	1,3
(C) describe technological advances.	3,6,8
<b>(5) Interpreting scientific data and information. The student shall be provided opportunities to:</b>	
(A) interpret data about models, objects, organisms, actions, events, and processes;	1-5, 7-10
(B) interpret data from graphs, tables, maps, and other visuals;	1-3,5,7-10
(C) form operational definitions of objects, organisms, actions, events, and processes based on observations and information; and	1-4, 8-10
(D) state relationships among objects, organisms, and events using operational definitions.	1-4, 8-10

<b>(6) Inferring, forming generalized statements, and making predictions using scientific data and information. The student shall be provided opportunities to:</b>	
(A) make inferences from data;	1,2,7
(B) form and state generalizations about objects, organisms, events, processes, and phenomena;	1,3-4,7-10
(C) predict outcomes based on scientific data and information; and	1,3-4, 7-10
(D) predict outcomes from trends in scientific data.	1,3,7
<b>(7) Experience in identifying problems and designing and conducting scientific investigations. The student shall be provided opportunities to:</b>	
(A) use appropriate equipment and materials;	1,3-6,9-10
(B) collect and/or organize measured data;	1-10
(C) formulate hypotheses, identify and manipulate the conditions of Seventh Grade Science investigations when appropriate;	4,6,8-10
(D) recognize and describe changes in objects, organisms, events, processes, and phenomena over time.	1,4-6,8-10
<b>(8) Drawing conclusions about the processes and outcomes of a scientific investigation. The student shall be provided opportunities to:</b>	
(A) use knowledge of principles, facts, and concepts to explain observations, processes, and outcomes in a Seventh Grade Science investigation; and	1-4, 8-10
(B) recognize patterns that may form as a result of the collected and analyzed data.	1,3-5,8-10
<b>(9) Relating and applying technology and scientific information to daily life. The student shall be provided opportunities to:</b>	
(A) relate objects, scientific principles, and activities to daily life;	2-10
(B) interpret consumer information obtained from tables, labels, and advertisements;	2-3,7-8
(C) assess the impact of science on society, technology, and the environment;	3-4,6-8
(D) recognize the limitations of science relating to technological advances;	6,8
(E) explain natural processes and phenomena; and	1,4-5,7-10
(F) solve problems and make decisions.	1,3-4,6,8-10
<b>(10) The nature of science. The student shall be provided opportunities to:</b>	
(A) use scientific methods;	1,4,9-10
(B) discuss ethics in science;	1,3,8-10
(C) measure and experiment;	1,2,4,8-9
(D) solve problems;	1,3-4,8-9
(E) formulate, discuss, critique, and review hypotheses, theories, laws, and principles as to their strengths and weaknesses; and	8-9
(F) practice safety.	1,4,9
<b>(11) Scientific advances. The student shall be provided opportunities to:</b>	
(A) investigate scientists and their contributions;	3,6
(B) apply technological innovations; and	3,6,8
(C) evaluate science and technological career opportunities, including science teaching.	3,6