

THE BRAIN: OUR SENSE OF SELF		
Texas Essential Knowledge and Skills for Science - Grades 6, 7, 8		
Lesson	Standard	Description
3, 4	§112.22.b.2.A §112.23.b.2.A §112.24.b.2.A	Plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.
1, 3, 4	§112.22.b.2.B §112.23.b.2.B §112.24.b.2.B	Collect data by observing and measuring.
All lessons	§112.22.b.2.C §112.23.b.2.C §112.24.b.2.C	Analyze and interpret information to construct reasonable explanations from direct and indirect evidence.
All lessons	§112.22.b.2.D §112.23.b.2.D §112.24.b.2.D	Communicate valid conclusions.
3, 4	§112.22.b.2.E §112.23.b.2.E §112.24.b.2.E	Construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data.
2, 3, 4	§112.22.b.3.A §112.23.b.3.A §112.24.b.3.A	Analyze, review, and critique scientific explanations, including hypotheses and theories, as to their strengths and weaknesses using scientific evidence and information.
3, 4	§112.22.b.3.C §112.23.b.3.C §112.24.b.3.C	Represent the natural world using models and identify their limitations.
3, 4, 5	§112.22.b.3.D §112.23.b.3.D §112.24.b.3.D	Evaluate the impact of research on scientific thought, society, and the environment.
	§112.22.b.3.E §112.23.b.3.E §112.24.b.3.E	Connect Grade 6, 7, or 8 science concepts with the history of science and contributions of scientists.

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3, 4	§112.22.b.4.A §112.23.b.4.A §112.24.b.4.A	Collect, analyze, and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers, and computer probes.
3, 4	§112.22.b.10.C	Identify how structure complements function at different levels of organization including organs, organ systems, organisms, and populations.
3, 4	§112.23.b.9.A	Identify the systems of the human organism and describe their functions.
2, 3, 4, 5	§112.24.b.4.B	Extrapolate from collected information to make predictions.
2, 3, 4, 5	§112.24.b.6.A	Describe interactions among systems in the human organism.
	§112.24.b.7.B	Recognize that waves are generated and can travel through different media.
4, 5	§112.24.b.11.A	Identify that change in environmental conditions can affect the survival of individuals and of species.

Texas Essential Knowledge and Skills for Mathematics – Grades 6, 7, 8

Lesson	Standard	Description
4	§111.22.b.1.B	Generate equivalent forms of rational numbers including whole numbers, fractions, and decimals.
4	§111.22.b.1.C	Use integers to represent real-life situations.
4	§111.22.b.8.A	Estimate measurements and evaluate reasonableness of results.
4	§111.22.b.10.D	Solve problems by collecting, organizing, displaying, and interpreting data.
4	§111.22.b.11.A	Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics.
4	§111.22.b.11.B	Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness.
4	§111.23.b.2.G	Determine the reasonableness of a solution to a problem.
4	§111.23.b.11.A	Select and use an appropriate representation for presenting collected data and justify the selection.
4	§111.23.b.11.B	Make inferences and convincing arguments based on an analysis of given or collected data.
4	§111.23.b.13.A	Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics.
4	§111.24.b.1.A	Compare and order rational numbers in various forms including integers, percents, and positive and negative fractions and decimals.

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4	§111.24.b.1.B	Select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships.
4	§111.24.b.2.A	Select and use appropriate operations to solve problems and justify the selections.
4	§111.24.b.2.B	Add, subtract, multiply, and divide rational numbers in problem situations.
4	§111.24.b.2.C	Evaluate a solution for reasonableness.
4	§111.24.b.4	Generate a different representation given one representation of data such as a table, graph, equation, or verbal description.
4	§111.24.b.11.B	Use theoretical probabilities and experimental results to make predictions and decisions.
4	§111.24.b.12.C	Construct circle graphs, bar graphs, and histograms, with and without technology.
4	§111.24.b.14.A	Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics.
4	§111.24.b.16.B	Validate his/her conclusions using mathematical properties and relationships.

Texas Essential Knowledge and Skills for English Language Arts and Reading – Grades 6, 7, 8

Lesson	Standard	Description
1, 3, 4, 5	§110.22.b.7.B §110.23.b.7.B §110.24.b.7.B	Read regularly in instructional-level materials that are challenging but manageable.
1, 3, 4, 5	§110.22.b.9.B §110.23.b.9.B §110.24.b.9.B	Draw on experiences to bring meanings to words in context such as interpreting idioms, multiple-meaning words, and analogies.
All lessons	§110.22.b.10.A §110.23.b.10.A §110.22.b.10.A	Use his/her own knowledge and experience to comprehend.
2, 3, 4, 5	§110.22.b.10.F §110.23.b.10.F §110.24.b.10.F	Determine a text's main (or major ideas) and how those ideas are supported with details.
2, 3, 4, 5	§110.22.b.10.G §110.23.b.10.G §110.24.b.10.G	Paraphrase and summarize text to recall, inform, or organize ideas.

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2, 3, 4, 5	§110.22.b.10.H §110.23.b.10.H §110.24.b.10.H	Draw inferences such as conclusions or generalizations and support them with text evidence and experience.
All lessons	§110.22.b.11.A §110.22.b.11.A §110.24.b.11.A	Offer observations, make connections, react, speculate, interpret, and raise questions in response to texts.
3, 4	§110.22.b.13.A §110.23.b.13.A §110.24.b.13.A	Form and revise questions for investigations, including questions arising from readings, assignments, and units of study.
3, 4	§110.22.b.13.C §110.23.b.13.C §110.24.b.13.C	Use multiple sources, including electronic texts, experts, and print resources, to locate information relevant to research questions.
2, 3, 4	§110.22.b.13.D §110.23.b.13.D §110.24.b.13.D	Interpret and use graphic sources of information such as maps, graphs, timelines, or tables to address research questions.
2, 3, 4, 5	§110.22.b.13.G §110.23.b.13.G §110.24.b.13.G	Draw conclusions from information gathered from multiple sources.
2, 3, 4, 5	§110.22.b.13.H §110.23.b.13.H §110.24.b.13.H	Use compiled information and knowledge to raise additional, unanswered questions.
2, 3, 4, 5	§110.22.b.13.I §110.23.b.13.I §110.24.b.13.I	Present organized statements, reports, and speeches using visuals or media to support meaning, as appropriate.
All lessons	§110.22.b.15.A §110.23.b.15.A §110.24.b.15.A	Write to express, discover, record, develop, reflect on ideas, and to problem solve.
All lessons	§110.22.b.15.C §110.23.b.15.C §110.24.b.15.C	Write to inform such as to explain, describe, report, and narrate.
All lessons	§110.22.b.15.E §110.23.b.15.E	Select and use voice and style appropriate to audience and purpose.

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	§110.24.b.15.E	
All lessons	§110.22.b.15.F §110.23.b.15.F §110.24.b.15.F	Choose the appropriate form for his/her own purpose for writing, including journals, letters, editorials, reviews, poems, presentations, narratives, reports, and instructions.
3, 4	§110.22.b.20.A §110.23.b.20.A §110.24.b.20.A	Frame questions to direct research.
All lessons	§110.22.b.22.B §110.23.b.22.B §110.24.b.22.B	Interpret important events and ideas gathered from maps, charts, graphics, video segments, or technology presentations.
Texas Essential Knowledge and Skills for Health Education – Grades 6, 7, 8		
Lesson	Standard	Description
4	§115.22.b.1.B	Explain the importance of a personal dietary and exercise plan.
4	§115.22.b.1.F	Describe the mental, physical, and social benefits of regular exercise and fitness.
3, 4, 5	§115.22.b.2.A	Analyze the relationships among the body systems.
4, 5	§115.22.b.4.B	Use critical thinking to research and evaluate health information.
4, 5	§115.23.b.1.A	Analyze the interrelationships of physical, mental, and social health.
4, 5	§115.23.b.4.C	Demonstrate ways to use health information to help self and others.
4	§115.23.b.9.A	Describe personal health behaviors and knowledge unique to different generations and populations.
4, 5	§115.23.b.12.A	Interpret critical issues related to solving health problems.
4, 5	§115.23.b.12.B	Relate practices and steps necessary for making health decisions.
4, 5	§115.23.b.12.C	Appraise the risks and benefits of decision-making about personal health.