

OPEN WIDE AND TREK INSIDE		
Texas Essential Knowledge and Skills for Science - Grades 1 & 2		
Lesson	Standard	Description
2, 3	§112.3.b.1.A	Demonstrate safe practices during field and laboratory investigations.
2, 3	§112.3.b.1.B	Learn how to use and conserve resources and materials.
1, 2, 3, 4, 5	§112.3.b.2.A	Ask questions about organisms, objects, and events.
1, 2, 3	§112.3.b.2.B	Plan and conduct simple descriptive investigations.
1, 2, 3	§112.3.b.2.C	Gather information using simple equipment and tools to extend the senses.
All lessons	§112.3.b.2.D	Construct reasonable explanations and draw conclusions.
1, 2, 3, 5, 6	§112.3.b.2.E	Communicate explanations about investigations.
2, 3, 4, 5, 6	§112.3.b.3.A	Make decisions using information.
3, 4, 5, 6	§112.3.b.3.B	Discuss and justify the merits of decisions.
3, 5, 6	§112.3.b.3.C	Explain a problem in his/her own words and identify a task and solution related to the problem.
3	§112.3.b.4.A	Collect information using tools including hand lenses, clocks, computers, thermometers, and balances.
2, 3, 5	§112.3.b.4.B	Record and compare collected information.
2, 3	§112.3.b.4.C	Measure organisms and objects and parts of organisms and objects, using non-standard units such as paper clips, hands, and pencils.
1, 2, 3, 5, 6	§112.3.b.5.A	Sort objects and events based on properties and patterns.
1, 2, 3, 5	§112.3.b.6.A	Sort organisms and objects according to their parts and characteristics.
1, 2, 4	§112.3.b.6.B	Observe and describe the parts of plants and animals.
2, 3, 5	§112.3.b.7.A	Observe, measure, and record changes in size, mass, color, position, quantity, sound, and movement.
5	§112.3.b.7.D	Observe and record changes in the life cycle of organisms.
1, 2, 3, 4, 5	§112.3.b.9.A	Identify characteristics of living organisms that allow their basic needs to be met.
2, 3	§112.4.b.1.A	Demonstrate safe practices during field and laboratory investigations.
2, 3	§112.4.b.1.B	Learn how to use and conserve resources and dispose of materials.
1, 2, 3, 4, 5	§112.4.b.2.A	Ask questions about organisms, objects, and events.

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1, 2, 3	§112.4.b.2.B	Plan and conduct simple descriptive investigations.
1, 2, 3, 5, 6	§112.4.b.2.C	Compare results of investigations with what students and scientists know about the world.
1, 3	§112.4.b.2.D	Gather information using simple equipment and tools to extend the senses.
All lessons	§112.4.b.2.E	Construct reasonable explanations and draw conclusions using information and prior knowledge.
1, 2, 3, 5, 6	§112.4.b.2.F	Communicate explanations about investigations.
2, 3, 4, 5, 6	§112.4.b.3.A	Make decisions using information.
3, 4, 5, 6	§112.4.b.3.B	Discuss and justify the merits of decisions.
3, 5, 6	§112.4.b.3.C	Explain a problem in his/her own words and identify a task and solution related to the problem.
3	§112.4.b.4.A	Collect information using tools including rulers, meter sticks, measuring cups, clocks, hand lenses, computers, thermometers, and balances.
2, 3	§112.4.b.4.B	Measure and compare organisms and objects and parts of organisms and objects, using standard and non-standard units.
1, 2, 3, 5, 6	§112.4.b.5.A	Classify and sequence organisms, objects, and events based on properties and patterns.
1, 2	§112.4.b.6.D	Observe and record the functions of animal parts.
2, 3, 5	§112.4.b.7.A	Observe, measure, record, analyze, predict, and illustrate changes in size, mass, temperature, color, position, quantity, sound, and movement.
1, 2, 4, 5	§112.4.b.8.A	Identify characteristics of living organisms.
1, 2, 4, 5	§112.4.b.9.A	Identify the external characteristics of different kinds of plants and animals that allow their needs to be met.

Texas Essential Knowledge and Skills for Mathematics – Grades 1 & 2

Lesson	Standard	Description
2, 3, 5	§111.13.b.1.A	Compare and order whole numbers up to 99 (less than, greater than, or equal to) using sets of concrete objects and pictorial models.
2, 3, 5	§111.13.b.1.D	Read and write numbers to 99 to describe sets of concrete objects.
2, 3	§111.13.b.3.B	Learn and apply basic addition facts (sums to 18) using concrete models.
2, 3	§111.13.b.6.A	Describe and identify objects in order to sort them according to a given attribute using informal language.
2, 3, 5	§111.13.b.9.A	Collect and sort data.
2	§111.13.b.9.B	Use organized data to construct real object graphs, picture graphs, and bar-type graphs.

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2, 5	§111.13.b.10.A	Draw conclusions and answer questions using information organized in real-object graphs, picture graphs, and bar-type graphs.
2, 3, 5	§111.13.b.11.A	Identify mathematics in everyday situations.
3	§111.13.b.11.B	Use a problem-solving model, with guidance as needed, that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness.
3	§111.13.b.11.D	Use tools such as real objects, manipulatives, and technology to solve problems.
1, 2, 3, 5	§111.13.b.12.A	Explain and record observations using objects, words, pictures, numbers, and technology.
1, 2, 3, 5	§111.13.b.13	Reason and support his or her thinking using objects, words, pictures, numbers, and technology.
2, 3	§111.14.b.1	Use concrete models to represent, compare, and order whole numbers (through 999), read the numbers, and record the comparisons using numbers and symbols (>, <, =).
2, 3	§111.14.b.3.A	Recall and apply basic addition facts (sums to 18).
3, 5	§111.14.b.6.C	Identify, describe, and extend patterns to make predictions and solve problems.
2	§111.14.b.7.B	Use attributes to describe how two shapes or two solids are alike or different.
2	§111.14.b.11.A	Construct picture graphs and bar-type graphs.
2	§111.14.b.11.B	Draw conclusions and answer questions based on picture graphs and bar-type graphs.
2, 3, 5	§111.14.b.12.A	Identify the mathematics in everyday situations.
3	§111.14.b.12.B	Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness.
3	§111.14.b.12.D	Use tools such as real objects, manipulatives, and technology to solve problems.
2, 3, 5	§111.14.b.13.A	Explain and record observations using objects, words, pictures, numbers, and technology.
2, 3, 5	§111.14.b.14	Reason and support his or her thinking using objects, words, pictures, numbers, and technology.

Texas Essential Knowledge and Skills for English Language Arts and Reading – Grades 1 & 2

Lesson	Standard	Description
All lessons	§110.3.b.1.B §110.4.b.1.B	Respond appropriately and courteously to directions and questions.
All lessons	§110.3.b.1.C §110.4.b.1.C	Participate in rhymes, songs, conversations, and discussions.
All lessons	§110.3.b.1.D	Listen critically to interpret and evaluate.

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	§110.4.b.1.D	
1, 4, 6	§110.3.b.1.E §110.4.b.1.E	Listen responsively to stories and other texts read aloud, including selections from classic and contemporary works.
All lessons	§110.3.b.3.C §110.4.b.3.C	Ask and answer relevant questions and make contributions in small or large group discussions.
All lessons	§110.3.b.4.B §110.4.b.4.A	Use vocabulary to describe clearly ideas, feelings, and experiences.
All lessons	§110.3.b.4.D §110.4.b.4.C	Retell a spoken message by summarizing or clarifying.
3	§110.3.b.9.B	Read regularly in instructional-level materials that are challenging but manageable (texts in which no more than approximately 1 in 10 words is difficult for the reader).
1, 2, 3, 4, 6	§110.3.b.10.B	Use graphs, charts, signs, captions, and other informational texts to acquire information.
All lessons	§110.4.b.10.B	Demonstrate understanding of informational text in various ways such as through writing, illustrating, developing demonstrations, and using available technology.
All lessons	§110.3.b.11.A	Discuss meanings of words and develop vocabulary through meaningful/concrete experiences.
1, 4, 5, 6	§110.3.b.12.C §110.4.b.9.C	Retell or act out the order of important events in stories.
All lessons	§110.3.b.12.E	Draw and discuss visual images based on text descriptions.
1, 4, 6	§110.3.b.12.F §110.4.b.9.F	Make and explain inferences from texts such as determining important ideas and causes and effects, making predictions, and drawing conclusions.
3, 4, 5	§110.3.b.15.A §110.4.b.12.A	Identify relevant questions for inquiry such as "What do pill bugs eat?", "Why do birds build different kinds of nests?"
2, 3, 4, 6	§110.4.b.12.E	Interpret and use graphic sources of information such as maps, charts, graphs, and diagrams.
All lessons	§110.3.b.15.B	Use pictures, print, and people to gather information and answer questions.
All lessons	§110.3.b.15.C §110.4.b.12.H	Draw conclusions from information gathered.
All lessons	§110.3.b.18.C §110.4.b.14.A	Write to record ideas and reflections.
All lessons	§110.3.b.18.D §110.4.b.14.B	Write to discover, develop, and refine ideas.

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All lessons	§110.3.b.18.E §110.4.b.14.C	Write to communicate with a variety of audiences.
All lessons	§110.3.b.18.F §110.4.b.14.D	Write in different forms for different purposes such as lists to record, letters to invite or thank, and stories or poems to entertain.
3, 4	§110.4.b.20.A	Write or dictate questions for investigating.
All lessons	§110.3.b.23.D §110.4.b.20.B	Record or dictate his/her own knowledge of a topic in various ways such as by drawing pictures, making lists, and showing connections among ideas.
3	§110.4.b.20.C	Take simple notes from relevant sources such as classroom guests, information books, and media sources.
1, 2, 3	§110.4.b.20.D	Compile notes into outlines, reports, summaries, or other written efforts using available technology.
Texas Essential Knowledge and Skills for Health Education – Grades 1 & 2		
Lesson	Standard	Description
5, 6	§115.3.b.1.A	Describe and practice activities that enhance individual health such as enough sleep, nutrition, and exercise.
2, 5	§115.3.b.1.B	Describe activities that are provided by health care professionals such as medical check-up and dental exams.
1, 2, 4, 5	§115.3.b.4.B	Identify major body structures and organs and describe their basic functions.
5, 6	§115.3.b.5.B	List ways health information can be used such as knowing how to brush teeth properly.
4, 5	§115.3.b.7.A	Name types of germs that cause illness and disease.
3, 4, 5	§115.3.b.7.C	Explain common practices that control the way germs are spread.
5, 6	§115.4.b.1.B	Describe and demonstrate personal health habits such as brushing and flossing teeth and exercise.
5, 6	§115.4.b.1.C	Identify food groups and describe the effects of eating too much sugar and fat such as knowing that sugar causes dental cavities.
5, 6	§115.4.b.1.D	Identify healthy and unhealthy food choices such as a healthy breakfast and snacks and fast food choices.
5, 6	§115.4.b.1.G	Describe how a healthy diet can help protect the body against some diseases.
2, 5	§115.4.b.3.C	Identify the major systems of the body.
5, 6	§115.4.b.4.D	Apply practices to control spread of germs in daily life such as hand washing and skin care.
3, 5, 6	§115.4.b.11.B	Describe how personal-health decisions affect self and others.