



To the Parent(s):

After registration is complete and the proctor has been approved, your child may take the Kindergarten Science Credit by Examination to assess mastery over the Texas Essential Knowledge and Skills.

WHAT TO BRING

- several sharpened No. 2 pencils

ABOUT THE EXAM

The examination for Kindergarten Science consists of 50 questions and is based on the Texas Essential Knowledge and Skills (TEKS) for this subject. The full list of TEKS is included at the end of this document (it is also available online at the Texas Education Agency website, <http://www.tea.state.tx.us/>). The TEKS outline specific topics covered in the exam, as well as more general areas of knowledge and levels of critical thinking. Use the TEKS to focus your study in preparation for the exam. All of the TEKS are assessed.

The examination will take place under supervision, and the recommended time limit is three hours. Check to see that the student has several pencils. A percentage score from the examination will be reported to the official at your school.

Because of the amount of reading on this exam, the administrator will read all of the directions, questions, and answer choices.

There is a sample examination included with this letter. The sample exam will give you a model of the types of questions that will be asked on the examination. It is not a duplicate of the actual examination. It is provided to illustrate the format of the exam, not to serve as a review sheet.

For more information about CBE policies, visit <http://www.ode.ttu.edu/takeacbe/>.

CBE Test Preparation

In kindergarten science, there are no state-adopted textbooks. Therefore, review the TEKS and work through the sample questions at the end of this document to familiarize your child with the basic format of the exam. You can also review the information in the following literature selections. They can be found at your public library.

- Aiki, *My Five Senses* (Harper Trophy, 1999), ISBN 006445083X
- Carle, *The Hungry Caterpillar* (Scholastic, 1999), ISBN 0590030299
- Carle, *The Tiny Seed* (Simon & Schuster, 2001), ISBN 0689842449
- Cole, *Magic School Bus Inside the Earth* (Scholastic, 1989), ISBN 0590407600
- Edom, *Science with Magnets* (Usborne Books, 1996), ISBN 0746012594
- Ehlert, *Planting a Rainbow* (Harcourt, 1992), ISBN 0152626107
- Fowler, *From Seed to Plant* (Scholastic Library Publishing, 2001), ISBN 0516273078
- Fowler, *It Could Still Be Water* (Scholastic Library Publishing, 1992), ISBN 0516496301
- Fowler, *What Magnets Can Do* (Scholastic Library Publishing, 1995), ISBN 051646034X
- Gans, *Let's Go Rock Collecting* (Harper Collins Children's Books, 1997), ISBN 0064451704
- Gibbons, *The Reasons for Seasons* (Holiday House, 1996), ISBN 0823412385
- Gibbons, *The Seasons of Arnold's Apple Tree* (Globe Pequot Press, 1991), ISBN 0152712453
- Gibbons, *Weather Words and What They Mean* (Holiday House, 1996), ISBN 082340952X
- Martin, *Watch Them Grow* (DK Publishing, Inc., 1994), ISBN 1564584585
- Marzollo, *Pretend You're a Cat* (Puffin Books, 1997), ISBN 0140559930
- Mason, *Magic School Bus Ups and Downs* (Scholastic, 1996), ISBN 0590921584
- Peters, *Water's Way* (Scholastic, 1991), ISBN 059045935X
- Reid, *The Button Box* (Puffin Books, 1995), ISBN 0140554955
- Relf, *Magic School Bus Wet All Over* (Scholastic, 1996), ISBN 0590508334
- Richardson, *Birds* (Franklin Watts, 1993), ISBN 0531142620
- Richardson, *Fish* (Franklin Watts, 1993), ISBN 0531142558

- Richardson, *Insects* (Franklin Watts, 1993), ISBN 0531142485
- Richardson, *Mammals* (Franklin Watts, 1993), ISBN 0531142531
- Richardson, *Reptiles* (Franklin Watts, 2005), ISBN 0836845080
- Selsam, *How to Be a Nature Detective* (Harper Collins Children's Books, 1995), ISBN 0064451348
- Zoehfeld, *What is the World Made Of?* (HarperCollins Publishers, 1998), ISBN 0064451631
- Zoehfeld, *What's Alive?* (Harper Collins Children's Books, 1995), ISBN 0064451321

It is important to prepare adequately.

SCI K CBE Sample Questions

These questions are meant to provide insight into the format of the test. **They are not the actual test questions.** Choose the correct answer to each question by coloring in the circle in front of the answer choice.

1. Plants need soil, water, and
 - A. milk.
 - B. juice.
 - C. sun.
2. Which line is the shortest?
 - A. _____
 - B. _____
 - C. _____
3. Which body part would a mother bird use to feed her babies?
 - A. wing
 - B. beak
 - C. feather
4. Which thing is living?
 - A. rock
 - B. tree
 - C. salt
5. What instrument is used to read the temperature?
 - A. wheel
 - B. thermometer
 - C. wind sock

Answer Key for Sample Questions

1. C
2. A
3. B
4. B
5. B

TTU: Kindergarten - Science CBE-Semester	
TEKS: §112.2. Science, Kindergarten.	
CBE Question #	TEKS Requirement (Grade K)
	§112.2. Science, Kindergarten.
	(a) Introduction.
	(1) In Kindergarten, science introduces the use of simple classroom and field investigations to help students develop the skills of asking questions, gathering information, communicating findings, and making informed decisions. Using their own senses and common tools such as a hand lens, students make observations and collect information. Students also use computers and information technology tools to support their investigations.
	(2) As students learn science skills, they identify components of the natural world including rocks, soil, and water. Students observe the seasons and growth as examples of change. In addition, Kindergarten science includes the identification of organisms and objects and their parts. Students learn how to group living organisms and nonliving objects and explore the basic needs of living organisms.
	(3) Science is a way of learning about the natural world. Students should know how science has built a vast body of changing and increasing knowledge described by physical, mathematical, and conceptual models, and also should know that science may not answer all questions.
	(4) A system is a collection of cycles, structures, and processes that interact. Students should understand a whole in terms of its components and how these components relate to each other and to the whole. All systems have basic properties that can be described in terms of space, time, energy, and matter. Change and constancy occur in systems and can be observed and measured as patterns. These patterns help to predict what will happen next and can change over time.
	(5) Investigations are used to learn about the natural world. Students should understand that certain types of questions can be answered by investigations, and that methods, models, and conclusions built from these investigations change as new observations are made. Models of objects and events are tools for understanding the natural world and can show how systems work. They have limitations and based on new discoveries are constantly being modified to more closely reflect the natural world.
	(b) Knowledge and skills.
	(1) Scientific processes. The student participates in classroom and field investigations following home and school safety procedures. The student is expected to:
✓	(A) demonstrate safe practices during classroom and field investigations; and
✓	(B) learn how to use and conserve resources and materials.
	(2) Scientific processes. The student develops abilities necessary to do scientific inquiry in the field and the classroom. The student is expected to:
✓	(A) ask questions about organisms, objects, and events;
✓	(B) plan and conduct simple descriptive investigations;
✓	(C) gather information using simple equipment and tools to extend the senses;
✓	(D) construct reasonable explanations using information; and
✓	(E) communicate findings about simple investigations.
	(3) Scientific processes. The student knows that information and critical thinking are used in making decisions. The student is expected to:
✓	(A) make decisions using information;
✓	(B) discuss and justify the merits of decisions; and
✓	(C) explain a problem in his/her own words and propose a solution.
	(4) Scientific processes. The student uses age-appropriate tools and models to verify that organisms and objects and parts of organisms and objects can be observed, described, and measured. The student is expected to:
✓	(A) identify and use senses as tools of observation; and
✓	(B) make observations using tools including hand lenses, balances, cups, bowls, and computers.

	(5) Science concepts. The student knows that organisms, objects, and events have properties and patterns. The student is expected to:
✓	(A) describe properties of objects and characteristics of organisms;
✓	(B) observe and identify patterns including seasons, growth, and day and night and predict what happens next; and
✓	(C) recognize and copy patterns seen in charts and graphs.
	(6) Science concepts. The student knows that systems have parts and are composed of organisms and objects. The student is expected to:
✓	(A) sort organisms and objects into groups according to their parts and describe how the groups are formed;
✓	(B) record observations about parts of plants including leaves, roots, stems, and flowers;
✓	(C) record observations about parts of animals including wings, feet, heads, and tails;
✓	(D) identify parts that, when separated from the whole, may result in the part or the whole not working, such as cars without wheels and plants without roots; and
✓	(E) manipulate parts of objects such as toys, vehicles, or construction sets that, when put together, can do things they cannot do by themselves.
	(7) Science concepts. The student knows that many types of change occur. The student is expected to:
✓	(A) observe, describe, and record changes in size, mass, color, position, quantity, time, temperature, sound, and movement;
✓	(B) identify that heat causes change, such as ice melting or the Sun warming the air and compare objects according to temperature;
✓	(C) observe and record weather changes from day to day and over seasons; and
✓	(D) observe and record stages in the life cycle of organisms in their natural environment.
	(8) Science concepts. The student knows the difference between living organisms and nonliving objects. The student is expected to:
✓	(A) identify a particular organism or object as living or nonliving; and
✓	(B) group organisms and objects as living or nonliving.
	(9) Science concepts. The student knows that living organisms have basic needs. The student is expected to:
✓	(A) identify basic needs of living organisms;
✓	(B) give examples of how living organisms depend on each other; and
✓	(C) identify ways that the Earth can provide resources for life.
	(10) Science concepts. The student knows that the natural world includes rocks, soil, and water. The student is expected to:
✓	(A) observe and describe properties of rocks, soil, and water; and
✓	(B) give examples of ways that rocks, soil, and water are useful.
	<i>Source: The provisions of this §112.1 adopted to be effective September 1, 1998, 22 TexReg 7647. The provisions of this subchapter shall be implemented by school districts beginning September 1, 1998, and at that time shall supersede §75.28(a)-(f) of this title (relating to Science).</i>