

1st Grade Resources needed for JCESC Curriculum

ELA

Course Overview

Throughout this course, you will be asked to refer to the student's textbook. When prompted to do so, please refer to the [eBook Reading List](#) to find the title of the assigned selection. Then, click on the title to access the eBook. You may also use books found on your bookshelves at home or at your local library. Supplemental reading is encouraged.

Before beginning to work with student in each unit:

- Please look through the first story and clearly print the high-frequency words -- one on each 3"x 5"card.
- Prepare a light-colored glove so that it has the five W's (who, what, when, where, why) printed on the fingers.
- **Instructions:** All instructions will be given in the content of the unit lesson. Every time the mentor is to give directions, the directions to be given to the student are provided in the **"Message to Adult Mentor"** section. You will note that the font is small for Mentor focus and much larger for student focus.
- [Storia School Edition eBooks](#) and **Arbordale Publishing eBooks** will be used throughout this course.
- If your district has purchased **Storia School Edition eBooks**, use your schools username and password to access these eBooks. The stories can also be purchased through www.amazon.com or borrowed from your local library. Many books also have links to PDF and YouTube read aloud versions.

Math

Course Overview

This course will focus on the Common Core Standards at the First Grade level. There are four critical areas of concentration. They are:

- (1) developing an understanding of addition, subtraction and strategies for addition and subtraction within 20;
- (2) developing an understanding of whole number relationship and place value, including grouping in tens and ones.
- (3) developing understanding of linear measurement and measuring lengths as iterating length units; and
- (4) reasoning about attributes of, and composing and decomposing geometric shapes.

Note to adult mentor: Each first grade student will be provided with a materials packet when they enroll in the course. (See below)

<p>1. Base 10 Blocks ★</p> <p>a) 10 unit cubes b.) 10 rods</p>	<p>2. Connecting Cubes (at least two colors) ★</p> <p>a) Two rods made up of ten cubes each</p>
	
<p>4. Dominoes ★</p> <p>a) 28 double-six set</p> 	<p>5. 1 Tangram set ★</p> <p>a.) One shape each in four colors</p> 

Household items to keep handy:

- a) dice
- b.) ruler
- c) notebook



Social Studies

Course Overview

In this course, students will learn about people working together through their study of history, geography, government and economics. Along with their continuing practice of social studies skills and methods, students use biographies of people whose work has made a difference and artifacts as clues to the past. They begin to understand various cultures and the impact of the environment on how people live, work and use their resources. Students build a framework necessary for collaboration and leadership that strengthens their abilities to work with others.

*no additional resources needed

Science

Course Overview

Theme of the 1st Grade Science Course:

They are curious about their physical environments and the myriad activities that take place within them. They have an intense desire to question and learn. The theme of this virtual science course, “Observations of the Environment,” builds upon the students’ curiosity and focuses on skills for systematic discovery of the physical world by using scientific inquiry.

Within this 1st Grade Science Course, scientific inquiry and its application require that all students:

- Observe and ask questions about the natural environment;
- Plan and conduct simple investigations;
- Employ simple equipment and tools to gather data and extend the senses;
- Use appropriate mathematics with data to construct reasonable explanations;
- Communicate about observations, investigations, and explanations; and
- Review and ask questions about the observations and explanations of others.

Within this 1st Grade Science Course, scientific inquiry embraces the following topics:

- Changes on Earth, in the sky, plants, animals, their habitats and non-living things in their local communities
- The characteristics of objects, tools, materials, how they move, and whether or not they are natural or man-made
- The different ways people learn about science and interact with living things and the environment to promote respect for nature
- Knowledge of scientific concepts through demonstration of verbal and non-verbal skills and activities

Presentation of the 1st Grade Science Course:

Color, lively movement, and various child-friendly voices, both spoken and in song, hold young students’ interests as they learn to use scientific inquiry to answer their many questions about the environment. They will experience all of this with the help of an on-site mentor.

[Required Materials for Science 110](#)

(see below)

SCI110: SCIENCE 110

This course requires the following items in most units: scissors, glue, ruler, yard stick.

Unit 02: Adventures of a Water Drop

- Container of water
- Plastic or metal rectangular pan
- Block of wood
- Sponges and paper towels for spills
- Clear plastic box with a clear lid. (shoebox size works fine.)
- Small bowl
- Water
- Blue food coloring
- Lamp (goose neck desk lamp is best)
- Plastic sandwich bag that zips closed
- Ice cubes
- 8 by 27 inch bulletin board paper or a large brown grocery bag.
- Colored pencils
- Tape and glue
- Scissors
- String or thread
- Hole puncher

Unit 03: Let's Try It Out in Water

- A Penny
- A metal spoon
- An Eraser
- An Ice cube
- A pencil
- A Soda straw
- A Paper clip
- A Rock or pebble
- water
- 9 oz. straight sided plastic cup (clear, if you have it)
- Plastic spill plate
- 50 marbles or small pebbles
- Rubber band
- 1 golf ball
- Protective table cover

- Paper towels
- a drop of blue food coloring

Unit 04: Down the River We Go

- Red bell pepper
- Kraft singles
- Pretzel sticks
- Dried apple chips
- Fish crackers

Unit 06: Here Comes the Sun

Radish seeds

- White paper
- Glue
- Basketball or a ball the size of a basketball.
- Paper plate
- Pencil
- Ruler
- Scissors
- Tape
- Straw
- Unit 7
- Egg carton cup (a section of an egg carton)
- Magic markers or paint
- Googly eyes
- 10 half pieces Chenille stems (pipe cleaners)

Unit 10: If a Dolphin were a Fish

- 2 small clear bowls
- warm and cold water
- 2 small sponge fish, cut from household sponges

Unit 20: Forces in Motion II

- a ruler or pencil
- Different-sized marbles
- a binder notebook or other materials to make a ramp

- Cooking spray
- Spatula
- A pint of whipping cream
- A jar with a lid

Unit 24: More About Matter

- 1 ½ cups cornstarch
- 1 bowl
- Water
- Measuring cup
- Mixing spoon
- Plastic container, or aluminum pie pan
- Green food coloring
- Newspapers to cover the table

Unit 25: More About Matter Part II

- Uncooked Eggs for the explorations
- Magnifying glass
- Ruler
- Yarn or string
- Lots of pennies
- 2 small yogurt containers to hold what we want to weigh. You may use some other type of containers, but you need two identical ones.
- 6 strings about 10 inches long
- A coat hanger (plastic or metal) I think a plastic hanger would work best.
- Pennies for weights (lots of them)
- A metal skewer, nail or hole punch
- a ruler
- yarn or string
- your two eggs
- A raw egg and a hardboiled egg
- White vinegar
- Two clear containers without a lid

Unit 28: Trees and Bees

- A glass half filled with water colored with food coloring.
- A piece of cut celery (with leaves)

Unit 31: Paws Claws a Roar - and More

- Large bowl full of water
- Solid vegetable shortening (such as Crisco shortening)
- 2 construction paper feather cutouts
- paper towels

JCESC VLA Required_Materials SCI110

- 2 plastic forks
- 4" by 2" piece of aluminum foil

Unit 35: 4 the Birds

Optional

- String
- Pinecone
- Butter knife
- Peanut butter
- Waxed paper or foil
- Bird seed