

4th Grade Resources needed for JCESC Curriculum

ELA

COURSE OVERVIEW

This course consists of reading, spelling, grammar, and writing. Some science concepts are integrated into reading, and some basic math skills are practiced in spelling. Students continue to engage in skill units to develop reading fluency and comprehension. They read a variety of genres including chapter books, tall tales, fables, poetry, folk tales, and informational articles. In each unit, students complete a journal entry and learn to use a rubric for journal writing. Students use the writing process and engage in a variety of writing applications.

[Required Materials for ENG_LA 140 \(see below\)](#)

You may purchase these books, or you may borrow them from your local library or school district.

Unit 05: Chapter Book-"How to be a Perfect Person in Just Three Days"

How to be a Perfect Person in Just Three Days by Stephan Manes

Unit 18: Chapter Book Test, Book Report

Any fiction book

Unit 20: The Magic Tree-Fantasy Story

Box of cereal

Math

Course Overview

In this course, students investigate the base-ten number system by reading, writing, representing, comparing and rounding whole numbers and decimals; compute with whole numbers using 1 and 2 digit numbers; develop strategies for performing mental computations; and generate equivalent forms of fractions and decimals to estimate, add, and subtract decimals and fractions with like denominators. Students count money and make change; examine prime and composite numbers; make simple measurement conversions of units; solve multi-step problems; and develop strategies to find perimeter, area, and volume. In geometry, students investigate, classify, and model plane figures and solids. They plot locations in the first

quadrant of a coordinate system and make transformations of slides, flips, and turns; use words, tables, and graphs to analyze patterns and relationships to make predictions and solve problems; represent unknowns as variables in equations and inequalities and relate how change in one variable affects the value of a related variable. Students gather and organize data in tables, charts, and graphs and make predictions based on interpretations and appropriate display of data; use mode, median, and range to describe characteristics of data; conduct simple probability experiments and make predictions of possible outcomes ordering events as impossible, unlikely, equal, likely, and certain-to-happen; and make lists to display all possible combinations of different sets of items.

[Required Materials for Math 140](#) (See below)

Unit 21: Predicting Outcomes

Crayons: one red, one blue, two green, one yellow
Small paper bag
Quarter

Unit 28: Geometry Figures

Two pencils

Unit 29: 2-D and 3-D Figures

Scissors
Tape
Paper
Ball or object shaped like a sphere

Unit 35: Area, Perimeter, and Volume

Yardstick or Ruler

Social Studies

Course Overview

The fourth-grade year focuses on the early development of Ohio and the United States. Students learn about the history, geography, government and economy of their state and nation.

Foundations of U.S. history are laid as students study prehistoric Ohio cultures, early American life, the U.S. Constitution, and the development and growth of Ohio and the United States.

Students begin to understand how ideas and events from the past have shaped Ohio and the United States today.

*no additional resources needed

Science

Course Overview

Students will continue to safely conduct investigations, choose appropriate tools, measure, collect, formulate conclusions and communicate findings. They draw inferences from simple experiments and study the physical and chemical changes of matter. Properties of materials and the discovery of new materials formed by combining two or more materials are explored.

Students expand the study of life cycles of plants by examining characteristics, growth and functions. Students gather information on the weather and its patterns and how weather impacts the Earth's surface, land, air and water. They explore how utilizing technology affects human lives and how technology and inventions change to meet people's needs.

[Required Materials for Science 140 \(See below\)](#)

Unit 01: Explain Air

Clear plastic glass, a sink or bowl of water, and a crumbled up piece of paper

Unit 03: Water Changes

A bottle with a narrow neck, ice cubes, very hot water, shiny metal can, paper towels, food coloring

Unit 07: Weather and Clouds

Cotton balls, lint from the clothes dryer, poster board, paints, and glue

Unit 08: Earth's shape from wind, water, ice

Two same-size clear glasses of water, 1/3 cup of salt, a spoon, a plastic straw, scissors, nondrying molding clay, colored thread, ice cubes that are more square than round, bowl of water, toothpick or small dowel or an unlit match or a popsicle stick (any type of stick with a length longer on both sides than the ice cube), glass jar that has a lid that fits well, water, your freezer, a paper bag

Unit 09: Freezing-Thawing-Plant growth to reshape Earth

Large cake pan, soil, ice block, five or six flat rocks that are numbered, water

Unit 10: Earth's surface changes

Blocks, plastic straws, tape, scissors, construction paper

Unit 31: Investigation results

A television with a remote control unit, a flashlight, cornstarch or baby powder, and a glass of clear water

Unit 33: Records, Observations, & Investigations

Approximately a dozen peanuts in their shell, bowls, ruler, string, and a balance if possible, a plane kit or a self-designed airplane, two ten meter tapes, paper clips, graph paper, and scissors