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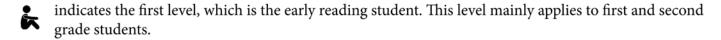
Introduction

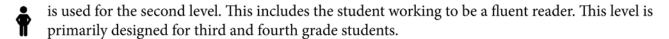
Common Sense Science—Human Body can be used in a single classroom, multilevel classroom, home-school, co-op, or science club. Everything you need for a complete study of the human body is in this book and the **Student Materials Packet**. Older students will need access to basic reference materials.

How to Use the Multilevel Approach

The lessons in this book include foundational content appropriate for third through sixth grade at different mastery levels. Activities are provided for first and second grade students to include them in multilevel teaching. For example, when learning about the muscular system, a first grader will learn about voluntary and involuntary muscles. This student is exposed to more information but not expected to retain it. In the same lesson, older students will be able to name the three different types of muscles, describe each, and give examples.

In the activity sections, icons are used to designate the levels in specific assignments.





denotes the third level, students who are fluent in reading and writing. This level of activities will usually apply to fifth and sixth grade students.

Choose the directions that fit the age of your student. If teaching mulitple grades, start with the younger student's directions.

Vocabulary Words

"If I know the vocabulary, I know the content. If I know the content, I know the vocabulary."

Dr. Ruth Beechik

Vocabulary words are introduced in the context of each lesson. A new word must be met fifteen times or so before it becomes a part of our speaking vocabulary, so use the words frequently as you present and discuss the material. You can also supplement the lessons with easy-to-read library books on the subject giving them even more opportunities to "meet" the words.

A vocabulary word list is included in the **Student Materials Packet**. Give students the appropriate word strip for each lesson and instruct them to use the words in discussion and writing assignments for reference and review.

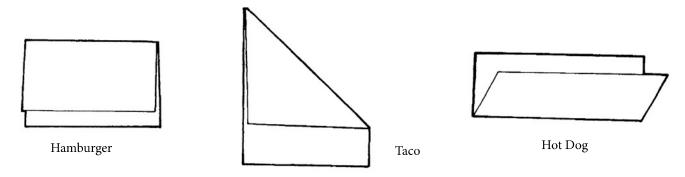
Graphic Organizers

"Tell me something and I forget. Show me something and I remember. Involve me in something and I learn."

Dinah Zike

Common Sense Science—Human Body uses 3D Graphic Organizers to help students of all levels better understand concepts by taking complicated information and breaking it down into visual parts. Although the content for the level will generally be the same, assignments and expectations for recording information learned will vary for each level. To make the Graphic Organizers, you will need the accompanying **Student Materials Packet**.

There are three basic folds used to construct the Graphic Organizers. Practice making these three basic food folds before you introduce them to your students.



Several of the *3D Graphic Organizers* expand over a series of lessons. For this reason, you will need a storage system for each student's *3D Graphic Organizers*. A pocket folder or a re-closable plastic bag works well.

The Graphic Organizers used in this program were created by Dinah Zike and used with her permission. To learn more visit www.dinah.com.

Labs

The study of science is based on the Scientific Method—make an observation, come up with a question or concept, make a prediction (hypothesis), experiment, and draw conclusions. Labs implementing this method provide context for the information found in the science lessons, increasing understanding as well as retention. These steps can be overwhelming to young children and should be used as a guideline to avoid frustrating them.

To simplify the process, the labs in Common Sense Science use the following approach:

Students

- are asked a question or presented a concept
- make a prediction of what will happen
- experiment and observe
- draw a conclusion based on what they have observed

Students will record their predictions, observations, experiments, and conclusions in a Lab Book.

The following lab materials list will help you to prepare. Labs can be completed by the class or by each student.

Lesson 3

magnifying glass

Lesson 5

low stool

watch with minute hand

mirror

Lesson 6

2-liter bottle

2-foot rubber tubing

large pan water marker

Lesson 7

yard stick

ten small objects

bath towel

Lesson 9

blindfold yardstick

Lesson 10

blindfold

watch with second-hand

ripe banana peanut butter

assorted fruit

scented candle, scented oil, or air freshener

piece of cloth

Lesson 11

apple potato onion blindfold water sugar

lemon juice tonic water

toothpicks

Lesson 12

yardstick blindfold

Additional Materials Needed

Students will need a **Student Materials Packet** which contains:

Vocabulary words Graphics for Labs and Graphic Organizers

Each student will also need pencils, scissors, glue, colored pencils or crayons, index cards, 12"x18" cardstock, paper, multi-colored 8.5"x11" paper, and a large re-closable bag to keep paper projects safe.

How to Use this Book

Lessons in the *Common Sense Science* series are divided into 18 three-day weeks. With this schedule, you will be able to complete two books a year.

Days 1 and 2 introduce content and the vocabulary needed to understand it. The lessons are scripted, so the teacher just needs to read them to the students. As you read, show them the images that will help them visualize what is being taught and then discuss what they have learned. Students will then have an opportunity to recreate and record what they have learned into a visual format called a Graphic Organizer that teaches and reviews the information.

During this time, they will also experiment with the material through labs that use household items and are easy to complete. They will practice exploring concepts by predicting outcomes, experimenting, and drawing conclusions.

On Day 3, students will have opportunities to explore and further investigate the subject matter covered during the week. Choose activities that your students are most interested in and fit your time schedule. Include library books and videos and other teaching tools available through the Internet to further enrich your students' learning experience.