

Content Standards

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Content Standards

Introduction

This document contains all the National Content Standards that are satisfied by various lessons and activities in the five *Build a Home, Build a Career* lesson booklets.

You will also find a list of the Content Standards In the back of each Lesson Booklet that pertain just to the lessons in that booklet.

Business Technology Standards

The following Business Technology standards apply to lessons in the Math Lesson Booklet.

- Apply mathematical operations and processes as well as financial planning strategies to commonly occurring situations in the workplace in order to accomplish job objectives and enhance workplace performance.
- Assess personal strengths and weaknesses as they relate to job objectives, career exploration, personal development, and life goals.

Career Exploration Standards (Success)

The following Career Exploration standards apply to lessons in the Career Exploration Lesson Booklet.

- List positive characteristics about themselves.
- Identify personal likes and dislikes.
- Identify individual talents and interests.
- Identify personal, physical, and mental characteristics.
- Correlate personal, physical and mental characteristics with various jobs.
- Assess and analyze personal talents and interests as they may relate to a future career.
- Compare personal skills and aptitudes with various career options.
- Correlate personal characteristics and requirements of various career opportunities.
- Determine attitudes needed for career success.
- Identify personal strengths and weaknesses.
- Assess and analyze strengths and weaknesses relative to a variety of career options.
- Describe and give examples of career clusters.
- List and describe various types of occupations in the community.
- Identify community business people and learn about career opportunities.
- Use a variety of research tools in the career exploration process.
- Research several occupational interests.
- Research a specific career.
- Prepare documents related to career exploration using a variety of technological resources.
- Prepare a career portfolio that includes career research materials and work samples.
- Identify likes and dislikes of home and school responsibilities.
- Relate information derived from self-assessment to career areas involving data, people, and/or things.
- Demonstrate how the skills and knowledge acquired in school relate to various occupations.
- Describe the relationship of assessed interests, aptitudes, and abilities to academic and occupational skills.
- Identify personal goals that may be satisfied through a combination of work, community, social, and family roles

Communication Technology Standards

The following Communication Technology standards apply to lessons in English/Communications Lesson Booklet.

- Demonstrate interpersonal skills as they relate to the workplace.
- Identify and apply methods of information acquisition and utilization.
- Apply basic skills in communications, mathematics, and science appropriate to technological content and learning activities.
- Demonstrate and apply design/problem-solving processes.
- Demonstrate the ability to properly identify, organize, plan, and allocate resources.
- Discuss individual interests and aptitudes as they relate to a career.
- Demonstrate technical knowledge and skills in the preparation of art and copy for printing reproduction.
- Express a technical knowledge and an understanding about electronic communication technology.
- Operate a computer utilizing a program related to graphic communications technology.

Language Arts Standards

The following Language Arts standards apply to lessons in the English/Communications Lesson Booklet.

- Use listening strategies effectively.
- Apply oral communication skills to interviews, group presentations, formal presentations, and impromptu situations.
- Understand the power of language.
- Use effective oral and written communication skills when working as a team.
- Construct meaning from a wide range of texts, determine author's purpose, and distinguish among the various points of view and their effects on the reader.
- Locate, gather, analyze, evaluate, organize and use information for a variety of purposes.
- Synthesize information from multiple sources to draw conclusions

The following Language Arts standards apply to lessons in the Career Exploration Lesson Booklet.

- Select and use pre-reading strategies that are appropriate to the text, such as discussion, making predictions, brainstorming, generating questions, and previewing, to anticipate content, purpose, and organization of a reading selection.
- Apply a variety of response strategies, including rereading, note taking, summarizing, outlining, writing a formal report, and relating what is read to their own experiences and feelings.
- Locate, gather, analyze, and evaluate written information for a variety of purposes, including research projects, real-world tasks, and self-improvement.
- Synthesize information from multiple sources to draw conclusions.
- Select and use appropriate prewriting strategies, such as brainstorming, graphic organizers, and outlines.
- Write text, notes, outlines, comments, and observations that demonstrate comprehension and synthesis of content, processes, and experiences from a variety of media.
- Organize information using appropriate systems. and use a variety of electronic media, such as the internet, information services, and desktop publishing software programs, to create, revise, retrieve, and verify information.
- Determine main concept and supporting details in order to analyze and evaluate non-print media messages.

- Understand factors that influence the effectiveness of nonverbal cues used in non-print media, such as the viewer's past experiences and preferences and the context in which the cues are presented.
- Effectively integrate multimedia and technology into presentations.
- Demonstrate strong listening and speaking skills appropriate for small groups

The following Language Arts standards apply to lessons in the Science Lesson Booklet

- Apply a variety of response strategies, including rereading, note taking, summarizing, outlining, writing a formal report, and relating what is read to their own experiences and feelings.
- Locate, gather, analyze, and evaluate written information for a variety of purposes, including research projects, real-world tasks, and self-improvement.
- Synthesize information from multiple sources to draw conclusions.
- Write text, notes, outlines, comments, and observations that demonstrate comprehension and synthesis of content, processes, and experiences from a variety of media.
- Organize information using appropriate systems.
- Select and use a variety of electronic media (such as the internet, information services, and desktop publishing software programs) to create, revise, retrieve, and verify information.

The following Language Arts standards apply to lessons in the Social Studies Lesson Booklet

- participate in formal presentations and discussions of issues and ideas.
- use oral communication skills effectively in both formal and informal presentations.
- use listening skills effectively in both formal and informal conversations.

Mathematics Standards

The following Mathematics standards apply to lessons in the Math Lesson Booklet.

- Solve real world problems involving length, height, perimeter, area, capacity/volume, time, temperature, and angle. (Formulas & Equations)
- Using a rectangular coordinate system (graph), apply and algebraically verify properties of 2- and 3-dimensional figures, including distance, midpoint, slope, parallelism and perpendicularity. (Ratio & Proportion)
- Select and use direct (measured) and indirect (not-measured) methods of measurement as appropriate. (Ratio & Proportion)
- Select and use appropriate instruments, technology and techniques to measure quantities in order to achieve specific degrees of accuracy in a problem situation. (Ratio & Proportion)
- Present and apply geometric properties and relationships to solve real world and mathematical problems including ratio, proportion and properties of right triangle trigonometry. (Ratio & Proportion)
- Describe, analyze, and generalize relationships, patterns and functions using words, symbols, variables, tables, and graphs. (Expressions)
- Calculate measures of central tendency (mean, median, mode) and dispersion (range, standard deviation and variance) for complex sets of data and determine the most meaningful measure to describe the data. (Statistics and Central Tendency)
- Collect, organize and display data in a variety of forms including tables, line graphs, charts, and bar graphs to determine how different ways of presenting data can lead to different interpretations. (Statistics and Central Tendency)
- Understand the different ways numbers are represented and used in the real world.
- Understand the effects of operations on numbers and the relationships among these operations; select appropriate operations; and compute for problem solving.
- Estimate measurements in real-world situations.
- Acquire a solid foundation, which includes knowledge of addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations.

The following Mathematics standards apply to lessons in the Science Lesson Booklet.

- Understand the different ways numbers are represented and used in the real world.
- Understand number systems.
- Understand the effects of operations on numbers and the relationships among these operations; select appropriate operations, and compute for problem solving.
- Use estimation in problem solving and computation.
- Measure quantities in the real world and use the measures to solve problems.
- Compare, contrast, and convert within systems of measurement.
- Estimate measurements in real-world problem situations.
- Select and use appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.

Science Standards

The following Science standards apply to lessons in the Science Lesson Booklet.

- Apply the use of technology to complete a task.
- Organize and maintain information.
- See things in the true mind's eye.
- Use basic reading, writing, and math skills to facilitate the completion of a technological task.
- Understand that all matter has observable, measurable properties.
- Understand that the types of force that act on an object and the effect of that force can be described, measured, and predicted.
- Use the scientific processes and habits of mind to solve problems.
- Understand that science, technology, and society are interwoven and interdependent.
- Understand how knowledge of energy is fundamental to all the scientific disciplines (e.g., the energy required for biological processes in living organisms and the energy required for the building, erosion, and rebuilding of the Earth).
- Know that changes in a component of an ecosystem will have unpredictable effects on the entire system, but that the components of the system tend to react in a way that will restore the ecosystem to its original condition.
- Know that the world ecosystems are shaped by physical factors that limit their productivity.
- Know that investigations are conducted to explore new phenomena, to check on previous results, to test how well a theory predicts, and to compare different theories.
- Understand that no matter how well one theory fits observations, a new theory might fit them as well or better, or might fit a wider range of observations, because in science, the testing, revising, and occasional discarding of theories, new and old, never ends and leads to an increasingly better understanding of how things work in the world, but not to absolute truth.
- Know that scientists can bring information, insights, and analytical skills to matters of public concern and help people understand the possible causes and effects of events.

Social Studies Standard

The following Social Studies standard apply to lessons in the Social Studies Lesson Booklet.

- demonstrate proficiency in expressing knowledge of continuity and change in history.

Technology Standards

The following Technology standards apply to lessons in the Science Lesson Booklet.

- Apply the use of technology to complete a task.
- Organize and maintain information.
- See things in the true mind's eye.
- Use basic reading, writing, and math skills to facilitate the completion of a technological task.

The following Technology standards are in Career Exploration

- Demonstrate interpersonal skills as they relate to the workplace.
- Identify and apply methods of information acquisition and utilization.
- Apply basic skills in communications, mathematics, and science appropriate to technological content and learning activities.
- Demonstrate and apply design/problem-solving processes.
- Demonstrate the ability to properly identify, organize, plan, and allocate resources.
- Discuss individual interests and aptitudes as they relate to a career.
- Research employability skills.
- Gain an understanding of entrepreneurship.
- Demonstrate technical knowledge and skills in the preparation of art and copy for printing reproduction.
- Express a technical knowledge and understanding about electronic communication technology.
- Operate a computer utilizing a program related to graphic communications technology.