

Bicycle Adventures Content Standards

Level 2 Grades 4-5

Project Area Skill refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objective:

Career Readiness-

- 2. Students will utilize and manage resources effectively to produce quality services and products.**

Benchmarks: K-4: A,B,C; 5-8: A

Project Area Skill: As the youth plan their activities and choose their project helper they will also be setting short term goals and determine when they will accomplish those goals. They will demonstrate the allocation of materials and human resources by making appointments with their project helper to complete many of the bicycle adventures activities.

- 3. Students will demonstrate the technological knowledge and skills required for future careers.**

Benchmarks: K-4: A,B; 5-8: A,B

Project Area Skill: The youth will surf the web to learn about the different features available for bicycles. They will also learn how to use tools such as a tire pressure gauge to maintain their bicycle.

- 4. Students will develop and demonstrate responsible and ethical workplace behaviors.**

Benchmarks: K-4: C,D,E; 5-8: B,D

Project Area Skill: The activities in the book help the youth to identify a variety of safety techniques to use while riding their bicycle. Techniques such as using hand signals and avoiding the path of dangerous obstacles are just a few examples.

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Objective:

Language Arts-

- 1. Reading and Listening for Comprehension: students will apply strategies and skills to comprehend information that is read, heard, and viewed.**

Benchmarks: K-4: A,B,C,D; 5-8: A,B,D

Project Area Skill: To follow the instructions set out for them in the book the youth will utilize strategies to comprehend text. They will participate in activities such as researching various media to determine what type of bicycle they like best and completing a bicycle checklist. Furthermore, through interaction with their project helper, the youth will also learn new vocabulary words.

- 2. Writing and Speaking for Expression: students will communicate effectively through speaking and writing.**

Benchmarks: K-4: B; 5-8: C

Project Area Skill: As the youth complete activities in their Bicycle Adventures book they will answer questions to reflect their learning. They will create lists and write letters to bicycle manufacturers asking for catalogs. Furthermore, they will express their knowledge of bicycle parts by writing down the purpose for each part.

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Objective:

Math-

- 1. Measurement: students will understand measurement systems and applications.**

Benchmarks: K-4: A; 5-8: A

Project Area Skill: Measurement will be addressed by the youth as they use a pressure gauge to measure the appropriate amount of air for a bike tire and create a direction sheet with mileage.

- 2. Data Analysis and Probability: students will understand how to formulate questions, analyze data, and determine probabilities.**

Benchmarks: K-4: A; 5-8: A

Project Area Skill: The youth will create a safety route using maps from their local community and a phone book. They will then use a word processing program to create a “cue sheet” that will give approximate mileage to streets and turns along their safe route.

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Objective:

Physical Education-

- 1. Demonstrates competency in many movement forms and proficiency in a few movement forms.**

Benchmarks: K-4: A,C; 5-8: A

Project Area Skill: As the youth advance in their bicycle education they will continue practicing their balance and movement skills. Furthermore they will exercise the turning and stopping signals used to alert the person behind them to what they are doing.

- 3. Exhibits knowledge and ability to participate in a physically active lifestyle.**

Benchmarks: K-4: A,B; 5-8: A

Project Area Skill: By understanding safe routes they can take around their neighborhood the youth will be gaining skills in a leisure activity they can participate in for the rest of their lives. Furthermore, with the knowledge they gain from these activities, the youth will feel confident on their bicycle and be willing to participate in such an activity often.

- 5. Demonstrates responsible personal and social behavior in physical activity settings.**

Benchmarks: K-4: A,E; 5-8: A

Project Area Skill: The youth will learn the hazards they may face while riding a bicycle down the road and what they can do to avoid them. They will also learn about the responsibility a bicycle rider has to signal to the people behind them if they are going to stop, or turn.

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Objective:

Science-

Strand I: Scientific Thinking and Practice

Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.

K-4 Benchmarks: III

5-8 Benchmarks: III

Project Area Skill: The youth will use mathematical skills along with scientific reasoning to create a safety route with a “cue sheet” to aid the youth with helpful hints to safely get them to where they need to go. The cue sheet will be documented on a chart and the youth will use measurement skills as they determine the approximate mileage to various places along their route.

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Objective:

Social Studies-

- 2. Geography: Students understand how physical, natural, and cultural processes influence where people live; the ways in which people live and how societies interact with one another and their environments.**

Benchmarks: K-4: A; 5-8: A

Project Area Skill: The youth will analyze maps of their town and identify safe routes for them to take on their bicycle to visit friends, family and businesses.