

# 4-H Curriculum Connections to the Virginia Standards of Learning

## **Animal Sciences 4-H Livestock Advancement Project (Pub # 380-119)**

- English 4.1 The student will use effective oral communication skills in a variety of settings.
- Present accurate directions to individuals and small groups.
  - Contribute to group discussions.
  - Seek ideas and opinions of others.
  - Use evidence to support opinions.
  - Use grammatically correct language and specific vocabulary to communicate ideas.
- English 4.2 The student will make and listen to oral presentations and reports.
- Use subject-related information and vocabulary.
  - Listen to and record information.
  - Organize information for clarity.
- English 4.5 The student will read and demonstrate comprehension of nonfiction.
- Use text organizers, such as type, headings, and graphics, to predict and categorize information.
  - Formulate questions that might be answered in the selection.
  - Explain the author's purpose.
  - Make simple inferences, using information from texts.
  - Draw conclusions, using information from texts.
  - Summarize content of selection, identifying important ideas, and providing details for each important idea.
  - Describe relationship between content and previously learned concepts or skills.
  - Distinguish between cause and effect and between fact and opinion.
  - Identify new information gained from reading.
- English 4.6 The student will demonstrate comprehension of information resources to research a topic.
- Construct questions about a topic.
  - Collect information, using the resources of the media center, including online, print, and media resources.
  - Evaluate and synthesize information.
- English 4.7 The student will write effective narratives, poems, and explanations.
- Focus on one aspect of a topic.
  - Develop a plan for writing.
  - Organize writing to convey a central idea.

- Write several related paragraphs on the same topic.
- Utilize elements of style, including word choice, and sentence variation.
- Write rhymed, unrhymed, and patterned poetry.
- Use available technology.

English 4.8 The student will edit writing for correct capitalization spelling, punctuation, and sentence structure.

- Use subject-verb agreement.
- Include prepositional phrases.
- Eliminate double negatives.
- Use noun-pronoun agreement.
- Use commas in series dates, and addresses.
- Incorporate adjectives and adverbs.
- Use the articles *a*, *an*, and *the* correctly.
- Use correct spelling for frequently used words, including common homophones.

English 5.6 The student will demonstrate comprehension of nonfiction.

- Use text organizers such as type, headings, and graphics, to predict and categorize information.
- Identify structural patterns found in nonfiction.
- Locate information to support opinions, predictions, and conclusions.
- Identify cause-and-effect relationships.
- Identify compare-and-contrast relationships.
- Skim materials to develop a general overview of content and to locate specific information.
- Identify new information gained from reading.

English 5.7 The student will demonstrate comprehension of information from a variety of print resources.

- Develop notes that include important concepts, summaries, and identification of information sources.
- Organize information on charts, maps, and graphs.

English 5.8 The student will write for a variety of purposes: to describe, to inform, to entertain, and to explain.

- Choose planning strategies for various writing purposes.
- Organize information.
- Demonstrate awareness of intended audience.
- Use precise and descriptive vocabulary to create tone and voice.
- Vary sentence structure.
- Revise writing for clarity.
- Use available technology to access information.

- English 5.9 The student will edit writing for correct grammar, capitalization, spelling, punctuation, and sentence structure.
- Use plural possessives.
  - Use adjective and adverb comparisons.
  - Identify and use interjections.
  - Use apostrophes in contractions and possessives.
  - Use quotation marks with dialogue.
  - Use commas to indicate interrupters and in the salutation and closing of a letter.
  - Use hyphen to divide words at the end of a line.
  - Edit for clausal fragment, run-on sentences, and excessive coordination.
- English 6.2 The student will listen critically and express opinions in oral presentations.
- Distinguish between fact and opinion.
  - Compare and contrast viewpoints.
  - Present a convincing argument.
  - Paraphrase what is heard.
  - Summarize what is heard.
  - Use grammatically correct language and vocabulary appropriate to audience, topic, and purpose.
- English 6.5 The student will demonstrate comprehension of a variety of informational selections.
- Identify questions to be answered.
  - Make, confirm, or revise predictions.
  - Use context to determine meanings of unfamiliar words and technical vocabulary.
  - Draw conclusions and make inferences based on explicit and implied information.
  - Organize the main idea and details to form a summary.
  - Compare and contrast information about one topic contained in different selections.
  - Select informational sources appropriate for a given purpose.
- English 6.6 The student will write narratives, descriptions, and explanations.
- Use a variety of planning strategies to generate and organize ideas.
  - Establish central idea, organization, elaboration, and unity.
  - Select vocabulary and information to enhance the central idea, tone, and voice.
  - Expand and embed ideas by using modifiers, standard coordination, and subordination in complete sentences.
  - Revise writing for clarity.
- English 6.7 The student will edit writing for correct grammar, capitalization, punctuation, spelling, and sentence structure.

- Use a variety of graphic organizers, including sentence diagrams, to analyze and improve sentence formation and paragraph structure.
- Use subject-verb agreement with intervening phrases and clauses.
- Use pronoun-antecedent agreement to include indefinite pronouns.
- Maintain consistent tense inflections across paragraphs.
- Choose adverbs to describe verbs, adjectives, and other adverbs.
- Use correct spelling for frequently used words.

English 7.6 The student will read and demonstrate comprehension of a variety of informational texts.

- Use knowledge of text structures to aid comprehension.
- Use knowledge of words and phrases that signal an author's organizational pattern to aid comprehension.
- Distinguish fact from opinion in newspaper, magazines, and other print media.
- Identify the source, viewpoint, and purpose of texts.
- Describe how word choice and language structure convey an author's viewpoint.
- Summarize what is read.
- Organize and synthesize information for use in written and oral presentations.

Life Science (LS)

LS.4 The student will investigate and understand that the basic needs of organisms must be met in order to carry out life processes. Key concepts include

- plant needs (light and energy sources, water, gases, nutrients);
- animal needs (food, water, gases, shelter, space); and
- factors that influence life processes.

English 8.6 The student will read, comprehend, and analyze a variety of informational sources.

- Draw on background knowledge and knowledge of text structure to understand selections.
- Analyze the author's credentials, viewpoint, and impact.
- Analyze the author's use of text structure and word choice.
- Analyze details for relevance and accuracy.
- Read and follow instructions to complete an assigned task.
- Summarize and critique text.
- Evaluate and synthesize information to apply in written and oral presentations.
- Draw conclusions based on explicit and implied information
- Make inferences based on explicit and implied information.

English 9.2 The student will make planned oral presentations.

- Include definitions to increase clarity.
- Use relevant details to support main ideas.

- Illustrate main ideas through anecdotes and examples.
- Cite information sources.
- Make impromptu responses to questions about presentation.
- Use grammatically correct language, including vocabulary appropriate to the topic, audience, and purpose.

- English 9.6 The student will develop narrative, expository, and technical writings to inform, explain, analyze, or entertain.
- Generate, gather, and organize ideas for writing.
  - Plan and organize writing to address a specific audience and purpose.
  - Communicate clearly the purpose of the writing.
  - Write clear, varied sentences.
  - Use specific vocabulary and information.
  - Arrange paragraphs into a logical progression.
  - Revise writing for clarity.
  - Proofread and prepare final product for intended audience and purpose.

- English 9.7 The student will edit writing for correct grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing.
- Use and apply rules for the parts of a sentence, including subject/verb, direct/indirect object, and predicate nominative/predicative adjective.
  - Use parallel structures across sentences and paragraphs.
  - Use appositives, main clauses, and subordinate clauses.
  - Use commas and semicolons to distinguish and divide main and subordinate clauses.

- BIO.6 The student will investigate and understand common mechanisms of inheritance and protein synthesis. Key concepts include
- cell division;
  - gamete formation
  - cell specialization;
  - prediction of inheritance of traits based on the Mendelian laws of heredity;
  - genetic variation (mutation, recombination, deletions, additions to DNA)
  - the structure, function, and replication of nucleic acids (DNA and RNA)
  - events involved in the construction of proteins;
  - use, limitations, and misuse of genetic information; and
  - exploration of the impact of DNA technologies.

- English 11.4 The student will read and analyze a variety of informational materials
- Use information from texts to clarify or refine understanding academic concepts.
  - Read and follow directions to complete an application for college admission, for a scholarship, or for employment.
  - Apply concepts and use vocabulary in informational and technical materials to complete a task.

- Generalize ideas from selections to make predictions about other texts.
- Analyze information from a text to draw conclusions.