

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### Indiana Standards - Career / Vocational - Grade 7

**STANDARD** IN.SCANS.1.5. SCANS: Basic Skills: LISTENING: Listen carefully to what a person says, noting tone of voice and body language; respond in a way that shows understanding of what is said.

#### **Grade 7**

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

**STANDARD** IN.SCANS.1.6. SCANS: People Skills: SOCIAL: show understanding, friendliness, and respect for feelings of others; assert oneself when appropriate; take an interest in what people say and why they think and act as they do.

#### **Grade 7**

Success Highways

Success Highways: Unit 01 - Destination Success

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Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

**STANDARD** IN.SCANS.1.9. SCANS: People Skills: TEAMWORK: Contribute to group with ideas and effort; do own share of work; encourage team members; resolve differences for the benefit of the team; responsibly challenge existing procedures, policies, or authorities.

#### **Grade 7**

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### Indiana Standards - Health and PE - Grade 7

**STANDARD** IN.5. Health Education: Students will demonstrate the ability to utilize interpersonal communication skills to enhance health.

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**PROFICIENCY STATEMENT** 7.5. Students will describe behaviors that influence interpersonal communication and analyze causes of conflict among young people. Students will develop skills to use nonverbal and verbal communication, listen to messages, communicate assertively, and communicate care, consideration, and respect of self and others. Students will also develop attentive listening, refusal, negotiation, and conflict resolution skills.

**INDICATOR** 7.5.5. Demonstrate attentive listening and other communication skills to build and maintain healthy relationships.  
**Grade 7**  
Success Highways  
Success Highways: Unit 03 - Highway Connections

### Indiana Standards - Language Arts - Grade 7

**STANDARD** IN.1. Reading: Word Recognition, Fluency, and Vocabulary Development: Students use their knowledge of word parts and word relationships, as well as context clues (the meaning of the text around a word), to determine the meaning of specialized vocabulary and to understand the precise meaning of grade-level-appropriate words.

**PROFICIENCY STATEMENT** 7.1.2. Vocabulary and Concept Development: Use knowledge of Greek, Latin, and Anglo-Saxon roots and word parts to understand subject-area vocabulary (science, social studies, and mathematics).

**Grade 7**  
Success Highways  
Success Highways: Unit 01 - Destination Success  
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Success Highways: Unit 05 - Highway to Well-being  
Success Highways: Unit 06 - Highway to Motivation  
Success Highways: Unit 07 - Creating a Success Highways Itinerary

**PROFICIENCY STATEMENT** 7.1.3. Vocabulary and Concept Development: Clarify word meanings through the use of definition, example, restatement, or through the use of contrast stated in the text.

**Grade 7**  
Success Highways: Unit 01 - Destination Success  
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## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

STANDARD	IN.4.	Writing: Writing Process: Students discuss, list, and graphically organize writing ideas. They write clear, coherent, and focused essays. Students progress through the stages of the writing process and proofread, edit, and revise writing.
PROFICIENCY STATEMENT	7.4.3.	Organization and Focus: Support all statements and claims with anecdotes (first-person accounts), descriptions, facts and statistics, and specific examples. <b>Grade 7</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	7.4.5.	Research and Technology: Identify topics; ask and evaluate questions; and develop ideas leading to inquiry, investigation, and research. <b>Grade 7</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	7.4.7.	Research and Technology: Use a computer to create documents by using word-processing skills and publishing programs; develop simple databases and spreadsheets to manage information and prepare reports. <b>Grade 7</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.5.	Writing: Writing Applications (Different Types of Writing and Their Characteristics): At Grade 7, students continue to write narrative (story), expository (informational), persuasive, and descriptive texts of at least 500 to 700 words. Students are introduced to biographical and autobiographical narratives and to writing summaries of grade-level-appropriate reading materials.
PROFICIENCY STATEMENT	7.5.2.	Write responses to literature that: Develop interpretations that show careful reading, understanding, and insight; Organize interpretations around several clear ideas, premises, or images from the literary work; Justify interpretations through sustained use of examples and evidence from the text. <b>Grade 7</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	7.5.3.	Write research reports that: Pose relevant and focused questions about the topic; Communicate clear and accurate perspectives on the subject; Include evidence and supporting details compiled through the formal research process, including use of a card catalog, Reader's Guide to Periodical Literature, a computer catalog, magazines, newspapers, dictionaries, and other reference books; Document sources with reference notes and a bibliography.

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### Grade 7

Success Highways: Interdisciplinary Connections

PROFICIENCY STATEMENT 7.5.4.

Write persuasive compositions that: State a clear position or perspective in support of a proposition or proposal; Describe the points in support of the proposition, employing well-articulated evidence and effective emotional appeals; Anticipate and address reader concerns and counter-arguments.

### Grade 7

Success Highways: Interdisciplinary Connections

PROFICIENCY STATEMENT 7.5.7.

Write for different purposes and to a specific audience or person, adjusting style and tone as necessary.

### Grade 7

Success Highways: Interdisciplinary Connections

STANDARD IN.7.

Listening and Speaking: Listening and Speaking Skills, Strategies, and Applications: Deliver focused, coherent presentations that convey ideas clearly and relate to the background and interests of the audience. Students evaluate the content of oral communication. Students deliver well-organized formal presentations using traditional speech strategies, including narration, exposition, persuasion, and description. Students use the same Standard English conventions for oral speech that they use in their writing.

PROFICIENCY STATEMENT 7.7.1.

Comprehension: Ask questions to elicit information, including evidence to support the speaker's claims and conclusions.

### Grade 7

Success Highways: Unit 01 - Destination Success

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Success Highways: Unit 07 - Creating a Success Highways Itinerary

PROFICIENCY STATEMENT 7.7.2.

Comprehension: Determine the speaker's attitude toward the subject.

### Grade 7

Success Highways

Success Highways: Unit 01 - Destination Success

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## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### Itinerary

**PROFICIENCY STATEMENT** 7.7.10. Speaking Applications: Deliver research presentations that: Pose relevant and concise questions about the topic; Provide accurate information on the topic; Include evidence generated through the formal research process including the use of a card catalog, Reader's Guide to Periodical Literature, computer databases, magazines, newspapers, and dictionaries; Cite reference sources appropriately.

#### **Grade 7**

Success Highways: Interdisciplinary Connections

### **Indiana Standards - Mathematics - Grade 7**

**STANDARD** IN.7.6. Data Analysis and Probability: Students collect, organize, and represent data sets and identify relationships among variables within a data set. They determine probabilities and use them to make predictions about events.

**PROFICIENCY STATEMENT** 7.6.1. Analyze, interpret, and display data in appropriate bar, line, and circle graphs and stem-and-leaf plots, and justify the choice of display.

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Success Highways: Interdisciplinary Connections

Success Highways: Unit 01 - Destination Success

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Success Highways: Unit 07 - Creating a Success Highways

Itinerary

**PROFICIENCY STATEMENT** 7.6.4. Analyze data displays, including ways that they can be misleading. Analyze ways in which the wording of questions can influence survey results.

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Success Highways: Unit 07 - Creating a Success Highways

Itinerary

### **Indiana Standards - Science - Grade 7**

**STANDARD** IN.7.1. The Nature of Science and Technology: Students further their scientific understanding of the natural world through investigations, experiences, and readings. They design solutions to practical problems by using a variety of scientific methodologies.

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

**PROFICIENCY STATEMENT** 7.1.7. Technology and Science: Explain how engineers, architects, and others who engage in design and technology use scientific knowledge to solve practical problems.

**Grade 7**

Success Highways: Interdisciplinary Connections

**STANDARD** IN.7.2. Scientific Thinking: Students use instruments and tools to measure, calculate, and organize data. They frame arguments in quantitative terms when possible. They question claims and understand that findings may be interpreted in more than one acceptable way.

**PROFICIENCY STATEMENT** 7.2.7. Communication Skills: Incorporate circle charts, bar and line graphs, diagrams, scatter plots, and symbols into writing, such as lab or research reports, to serve as evidence for claims and/or conclusions.

**Grade 7**

Success Highways: Interdisciplinary Connections

**STANDARD** IN.7.5. The Mathematical World: Students apply mathematics in scientific contexts. They use mathematical ideas, such as relations between operations, symbols, statistical relationships, and the use of logical reasoning, in the representation and synthesis of data.

**PROFICIENCY STATEMENT** 7.5.4. Reasoning and Uncertainty: Describe that the larger the sample, the more accurately it represents the whole. Understand, however, that any sample can be poorly chosen and this will make it unrepresentative of the whole.

**Grade 7**

Success Highways: Interdisciplinary Connections

### Indiana Standards - Career / Vocational - Grade 8

**STANDARD** IN.SCANS.1.5. SCANS: Basic Skills: LISTENING: Listen carefully to what a person says, noting tone of voice and body language; respond in a way that shows understanding of what is said.

**Grade 8**

Success Highways

Success Highways: Unit 01 - Destination Success

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**STANDARD** IN.SCANS.1.6. SCANS: People Skills: SOCIAL: show understanding, friendliness, and

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respect for feelings of others; assert oneself when appropriate; take an interest in what people say and why they think and act as they do.

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Success Highways: Unit 01 - Destination Success

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**STANDARD** IN.SCANS.1.9. SCANS: People Skills: TEAMWORK: Contribute to group with ideas and effort; do own share of work; encourage team members; resolve differences for the benefit of the team; responsibly challenge existing procedures, policies, or authorities.

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## Indiana Standards - Health and PE - Grade 8

**STANDARD** IN.5. Health Education: Students will demonstrate the ability to utilize interpersonal communication skills to enhance health.

**PROFICIENCY STATEMENT** 8.5. Students will describe behaviors that influence interpersonal communication and analyze causes of conflict among young people. Students will develop skills to use nonverbal and verbal communication, I messages, communicate assertively, and communicate care, consideration, and respect of self and others. Students will also develop attentive listening, refusal, negotiation, and conflict resolution skills.

**INDICATOR** 8.5.5. Demonstrate attentive listening and other communication skills to build and maintain healthy relationships.

### Grade 8

Success Highways

Success Highways: Unit 03 - Highway Connections

## Indiana Standards - Language Arts - Grade 8

**STANDARD** IN.1. Reading: Word Recognition, Fluency, and Vocabulary Development: Students use their knowledge of word parts and word relationships, as

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well as context clues (the meaning of the text around a word), to determine the meaning of specialized vocabulary and to understand the precise meaning of grade-level-appropriate words.

### PROFICIENCY STATEMENT

8.1.2. Vocabulary and Concept Development: Understand the influence of historical events on English word meaning and vocabulary expansion.

#### Grade 8

Success Highways

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Success Highways: Unit 07 - Creating a Success Highways Itinerary

### PROFICIENCY STATEMENT

8.1.3. Vocabulary and Concept Development: Verify the meaning of a word in its context, even when its meaning is not directly stated, through the use of definition, restatement, example, comparison, or contrast.

#### Grade 8

Success Highways: Unit 01 - Destination Success

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### STANDARD

IN.2. Reading: Reading Comprehension (Focus on Informational Materials): Students read and understand grade-level-appropriate material. They describe and connect the essential ideas, arguments, and perspectives of the text by using their knowledge of text structure, organization, and purpose.

### PROFICIENCY STATEMENT

8.2.5. Comprehension and Analysis of Grade-Level-Appropriate Text: Use information from a variety of consumer and public documents to explain a situation or decision and to solve a problem.

#### Grade 8

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 05 - Highway to Well-being

### STANDARD

IN.4. Writing: Writing Process: Students discuss, list, and graphically organize writing ideas. They write clear, coherent, and focused essays. Students progress through the stages of the writing process and proofread, edit,

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and revise writing.

PROFICIENCY STATEMENT	8.4.4.	Research and Technology: Plan and conduct multiple-step information searches by using computer networks. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.4.5.	Research and Technology: Achieve an effective balance between researched information and original ideas. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.4.6.	Research and Technology: Use a computer to create documents by using word-processing skills and publishing programs; develop simple databases and spreadsheets to manage information and prepare reports. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.5.	Writing: Writing Applications (Different Types of Writing and Their Characteristics): At Grade 8, students continue to write narrative (story), expository (informational), persuasive, and descriptive essays of at least 750 to 1,000 words. Students are introduced to writing technical documents.
PROFICIENCY STATEMENT	8.5.1.	Write biographies, autobiographies, and short stories that: Tell about an incident, event, or situation by using well-chosen details; Reveal the significance of, or the writer's attitude about, the subject; Use narrative and descriptive strategies, including relevant dialogue, specific action, physical description, background description, and comparison or contrast of characters. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.5.2.	Write responses to literature that: Demonstrate careful reading and insight into interpretations; Connect response to the writer's techniques and to specific textual references; Make supported inferences about the effects of a literary work on its audience; Support judgments through references to the text, other works, other authors, or to personal knowledge. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.5.3.	Write research reports that: Define a thesis (a statement of position on the topic); Include important ideas, concepts, and direct quotations from

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significant information sources, including print reference materials and the Internet, and paraphrase and summarize all perspectives on the topic, as appropriate; Use a variety of primary and secondary sources and distinguish the nature and value of each; Organize and display information on charts, tables, maps, and graphs; Document sources with reference notes and a bibliography.

### **Grade 8**

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

8.5.4.

Write persuasive compositions that: Include a well-defined thesis that makes a clear and knowledgeable appeal; Present detailed evidence, examples, and reasoning to support effective arguments and emotional appeals; Provide details, reasons, and examples, arranging them effectively by anticipating and answering reader concerns and counter-arguments.

### **Grade 8**

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

8.5.7.

Write for different purposes and to a specific audience or person, adjusting tone and style as necessary.

### **Grade 8**

Success Highways: Interdisciplinary Connections

#### STANDARD

IN.7.

Listening and Speaking: Listening and Speaking Skills, Strategies, and Applications: Students deliver focused, coherent presentations that convey ideas clearly and relate to the background and interests of the audience. They evaluate the content of oral communication. Students deliver well-organized formal presentations using traditional speech strategies, including narration, exposition, persuasion, and description. Students use the same Standard English conventions for oral speech that they use in their writing.

#### PROFICIENCY STATEMENT

8.7.1.

Comprehension: Paraphrase (restate) a speaker's purpose and point of view and ask questions concerning the speaker's content, delivery, and attitude toward the subject.

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#### PROFICIENCY

8.7.12.

Speaking Applications: Deliver research presentations that: Define a

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### STATEMENT

thesis (a position on the topic); Research important ideas, concepts, and direct quotations from significant information sources and paraphrase and summarize important perspectives on the topic; Use a variety of research sources and distinguish the nature and value of each; Present information on charts, maps, and graphs.

#### Grade 8

Success Highways: Interdisciplinary Connections

### Indiana Standards - Mathematics - Grade 8

#### STANDARD

IN.8.6.

Data Analysis and Probability: Students collect, organize, represent, and interpret relationships in data sets that have one or more variables. They determine probabilities and use them to make predictions about events.

#### PROFICIENCY STATEMENT

8.6.4.

Analyze, interpret, and display single- and two-variable data in appropriate bar, line and circle graphs, stem-and-leaf plots and box-and-whisker plots, and explain which types of display are appropriate for various data sets.

#### Grade 8

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### Indiana Standards - Science - Grade 8

#### STANDARD

IN.8.1.

The Nature of Science and Technology: Students design and carry out increasingly sophisticated investigations. They understand the reason for isolating and controlling variables in an investigation. They realize that scientific knowledge is subject to change as new evidence arises. They examine issues in the design and use of technology, including constraints, safeguards, and trades offs.

#### PROFICIENCY STATEMENT

8.1.1.

The Scientific View of the World: Recognize that and describe how scientific knowledge is subject to modification as new information challenges prevailing theories and as a new theory leads to looking at old observations in a new way.

#### Grade 8

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

8.1.2.

The Scientific View of the World: Recognize and explain that some matters cannot be examined usefully in a scientific way.

#### Grade 8

Success Highways: Interdisciplinary Connections

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	8.1.3.	Scientific Inquiry: Recognize and describe that if more than one variable changes at the same time in an experiment, the outcome of the experiment may not be attributable to any one of the variables. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.8.2.	Scientific Thinking: Students use computers to organize and compare information. They perform calculations and determine the appropriate units for the answers. They weigh the evidence for or against an argument, as well as the logic of the conclusions.
PROFICIENCY STATEMENT	8.2.6.	Communication: Write clear, step-by-step instructions (procedural summaries) for conducting investigations, operating something, or following a procedure. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.2.7.	Communication: Participate in group discussions on scientific topics by restating or summarizing accurately what others have said, asking for clarification or elaboration, and expressing alternative positions. <b>Grade 8</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	8.2.10.	Critical Response Skills: Identify and criticize the reasoning in arguments in which fact and opinion are intermingled or the conclusions do not follow logically from the evidence given, an analogy is not apt, no mention is made of whether the control group is very much like the experimental group, or all members of a group are implied to have nearly identical characteristics that differ from those of other groups. <b>Grade 8</b> Success Highways: Interdisciplinary Connections

### Indiana Standards - Career / Vocational - Grade 9

STANDARD	IN.SCANS.1.5.	SCANS: Basic Skills: LISTENING: Listen carefully to what a person says, noting tone of voice and body language; respond in a way that shows understanding of what is said. <b>Grade 9</b> Success Highways Success Highways: Unit 01 - Destination Success Success Highways: Unit 02 - Highway to Confidence Success Highways: Unit 03 - Highway Connections Success Highways: Unit 04 - Highway Roadblocks - Managing Stress Success Highways: Unit 05 - Highway to Well-being Success Highways: Unit 06 - Highway to Motivation Success Highways: Unit 07 - Creating a Success Highways
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### Itinerary

**STANDARD** IN.SCANS.1.6. SCANS: People Skills: SOCIAL: show understanding, friendliness, and respect for feelings of others; assert oneself when appropriate; take an interest in what people say and why they think and act as they do.

#### Grade 9

Success Highways

Success Highways: Unit 01 - Destination Success

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**STANDARD** IN.SCANS.1.9. SCANS: People Skills: TEAMWORK: Contribute to group with ideas and effort; do own share of work; encourage team members; resolve differences for the benefit of the team; responsibly challenge existing procedures, policies, or authorities.

#### Grade 9

Success Highways

Success Highways: Unit 01 - Destination Success

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### Indiana Standards - Health and PE - Grade 9

**STANDARD** IN.5. Health Education: Students will demonstrate the ability to utilize interpersonal communication skills to enhance health.

**PROFICIENCY STATEMENT** 9.5. Students will describe behaviors that influence interpersonal communication and analyze causes of conflict. Students will develop advanced skills to use nonverbal and verbal communication, I messages, communicate assertively, and communicate care, consideration, and respect of self and others. Students will also develop advanced attentive listening, refusal, negotiation, collaboration, and conflict resolution skills.

**INDICATOR** 9.5.2. Analyze how interpersonal communication affects relationships.

#### Grade 9

Success Highways

Success Highways: Unit 03 - Highway Connections

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### Indiana Standards - Language Arts - Grade 9

**STANDARD** IN.1. Reading: Word Recognition, Fluency, and Vocabulary Development: Students apply their knowledge of word origins (words from other languages or from history or literature) to determine the meaning of new words encountered in reading and use those words accurately.

**PROFICIENCY STATEMENT** 9.1.1. Vocabulary and Concept Development: Identify and use the literal and figurative meanings of words and understand the origins of words.

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Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

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Success Highways: Unit 07 - Creating a Success Highways Itinerary

**PROFICIENCY STATEMENT** 9.1.2. Vocabulary and Concept Development: Distinguish between what words mean literally and what they imply and interpret what the words imply.

**Grade 9**

Success Highways

Success Highways: Unit 01 - Destination Success

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**PROFICIENCY STATEMENT** 9.1.3. Vocabulary and Concept Development: Use knowledge of Greek, Roman, and Norse mythology to understand the origin and meaning of new words.

**Grade 9**

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**STANDARD** IN.2. Reading: Reading Comprehension (Focus on Informational Materials):

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Students read and understand grade-level-appropriate material. They analyze the organizational patterns and evaluate authors' arguments and positions.

### PROFICIENCY STATEMENT

9.2.3.

Comprehension and Analysis of Grade-Level-Appropriate Text: Generate relevant questions about readings on issues that can be researched.

#### Grade 9

Success Highways: Interdisciplinary Connections

### STANDARD

IN.4.

Writing: Writing Process: Students discuss ideas for writing with other writers. They write coherent and focused essays that show a well-defined point of view and tightly reasoned argument. Students progress through the stages of the writing process (prewriting, writing, editing, and revising).

### PROFICIENCY STATEMENT

9.4.4.

Research and Technology: Use writing to formulate clear research questions and to compile information from primary and secondary print or Internet sources.

#### Grade 9

Success Highways: Interdisciplinary Connections

### PROFICIENCY STATEMENT

9.4.5.

Research and Technology: Develop the main ideas within the body of the composition through supporting evidence, such as scenarios, commonly held beliefs, hypotheses, and definitions.

#### Grade 9

Success Highways: Interdisciplinary Connections

### PROFICIENCY STATEMENT

9.4.6.

Research and Technology: Synthesize information from multiple sources, including almanacs, microfiche, news sources, in-depth field studies, speeches, journals, technical documents, and Internet sources.

#### Grade 9

Success Highways: Interdisciplinary Connections

### PROFICIENCY STATEMENT

9.4.9.

Research and Technology: Use a computer to design and publish documents by using advanced publishing software and graphic programs.

#### Grade 9

Success Highways: Interdisciplinary Connections

### STANDARD

IN.5.

Writing: Writing Applications (Different Types of Writing and Their Characteristics): At Grade 9, students combine the rhetorical strategies of narration, exposition, persuasion, and description to produce texts of at least 1,500 words. Students begin to write documents related to career development.

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	9.5.2.	<p>Write responses to literature that: Demonstrate a comprehensive grasp of the significant ideas of literary works; Support important ideas and viewpoints through accurate and detailed references to the text or to other works; Demonstrate awareness of the author's style and an appreciation of the effects created; Identify and assess the impact of ambiguities, nuances, and complexities within the text.</p> <p><b>Grade 9</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	9.5.3.	<p>Write expository compositions, including analytical essays and research reports that: Gather evidence in support of a thesis (position on the topic), including information on all relevant perspectives; Communicate information and ideas from primary and secondary sources accurately and coherently; Make distinctions between the relative value and significance of specific data, facts, and ideas; Use a variety of reference sources, including word, pictorial, audio, and Internet sources, to locate information in support of topic; Include visual aids by using technology to organize and record information on charts, data tables, maps, and graphs; Anticipate and address readers' potential misunderstandings, biases, and expectations; Use technical terms and notations accurately.</p> <p><b>Grade 9</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	9.5.4.	<p>Write persuasive compositions that: Organize ideas and appeals in a sustained and effective fashion with the strongest emotional appeal first and the least powerful one last; Use specific rhetorical (communication) devices to support assertions, such as appealing to logic through reasoning; appealing to emotion or ethical belief; or relating a personal anecdote, case study, or analogy; Clarify and defend positions with precise and relevant evidence, including facts, expert opinions, quotations, expressions of commonly accepted beliefs, and logical reasoning; Address readers' concerns, counterclaims, biases, and expectations.</p> <p><b>Grade 9</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	9.5.5.	<p>Write documents related to career development, including simple business letters and job applications that: Present information purposefully and in brief to meet the needs of the intended audience; Follow a conventional business letter or memorandum format.</p> <p><b>Grade 9</b> Success Highways Success Highways: Unit 01 - Destination Success Success Highways: Unit 02 - Highway to Confidence Success Highways: Unit 03 - Highway Connections Success Highways: Unit 04 - Highway Roadblocks - Managing Stress Success Highways: Unit 05 - Highway to Well-being Success Highways: Unit 06 - Highway to Motivation</p>

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

Success Highways: Unit 07 - Creating a Success Highways Itinerary

**PROFICIENCY STATEMENT**

9.5.8. Write for different purposes and audiences, adjusting tone, style, and voice as appropriate.

**Grade 9**

Success Highways: Interdisciplinary Connections

**STANDARD**

IN.7.

Listening and Speaking: Listening and Speaking Skills, Strategies, and Applications: Students formulate thoughtful judgments about oral communication. They deliver focused and coherent presentations of their own that convey clear and distinct perspectives and solid reasoning. Students deliver polished formal and extemporaneous presentations that combine the traditional speech strategies of narration, exposition, persuasion, and description. They use gestures, tone, and vocabulary appropriate to the audience and purpose. Students use the same Standard English conventions for oral speech that they use in their writing.

**PROFICIENCY STATEMENT**

9.7.1.

Comprehension: Summarize a speaker's purpose and point of view and ask questions concerning the speaker's content, delivery, and attitude toward the subject.

**Grade 9**

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

### Indiana Standards - Mathematics - Grade 9

**STANDARD**

IN.PS.1.

Probability and Statistics: Descriptive Statistics: Students gather and display data, and use measures of central tendency and variability.

**PROFICIENCY STATEMENT**

PS.1.2.

Compute and use mean, median, mode, weighted mean, geometric mean, harmonic mean, range, quartiles, variance, and standard deviation.

**Grade 9**

Success Highways: Interdisciplinary Connections

Success Highways: Unit 01 - Destination Success

**STANDARD**

IN.PS.2.

Probability and Statistics: Probability: Students solve problems involving the use of probability and probability distributions.

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	PS.2.7.	Compute and interpret the mean and variance of a probability distribution. <b>Grade 9</b> Success Highways: Interdisciplinary Connections Success Highways: Unit 01 - Destination Success
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### Indiana Standards - Science - Grade 9

STANDARD	IN.C.1.	Chemistry I: Principles of Chemistry: Students begin to conceptualize the general structure of the atom and the roles played by the main parts of the atom in determining the properties of materials. They investigate, through such methods as laboratory work, the nature of chemical changes and the role of energy in those changes.
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PROFICIENCY STATEMENT	C.1.26.	The Structure of Matter: Describe physical changes and properties of matter through sketches and descriptions of the involved materials. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
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PROFICIENCY STATEMENT	C.1.27.	The Structure of Matter: Describe chemical changes and reactions using sketches and descriptions of the reactants and products. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
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STANDARD	IN.C.2.	Chemistry I: Historical Perspectives of Chemistry: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, students understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that these ideas grow or transform slowly through the contributions of many different investigators.
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PROFICIENCY STATEMENT	C.2.1.	Explain that Antoine Lavoisier invented a whole new field of science based on a theory of materials, physical laws, and quantitative methods, with the conservation of matter at its core. Recognize that he persuaded a generation of scientists that his approach accounted for the experimental results better than other chemical systems. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
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PROFICIENCY STATEMENT	C.2.2.	Describe how Lavoisier's system for naming substances and describing their <b>Grade 9</b> Success Highways: Interdisciplinary Connections
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## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	C.2.3.	Explain that John Dalton's modernization of the ancient Greek ideas of element, <b>Grade 9</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.ENV.2.	Environmental Science: Historical Perspectives of Environmental Science: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, they understand that new ideas are limited by the context in which they are conceived, that the ideas are often rejected by the scientific establishment, that the ideas sometimes spring from unexpected findings, and that the ideas grow or transform slowly through the contributions of many different investigators.
PROFICIENCY STATEMENT	Env.2.2.	Explain that Henry Cowles found the Indiana Dunes and Lake Michigan shoreline area a natural laboratory for developing important principles of plant succession. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.CP.2.	Integrated Chemistry: Historical Perspectives of Integrated Chemistry - Physics: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, they understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that these ideas grow or transform slowly through the contributions of many different investigators.
PROFICIENCY STATEMENT	CP.2.2.	Describe how Lavoisier's system for naming substances and describing their reactions contributed to the rapid growth of chemistry by enabling scientists everywhere to share their findings about chemical reactions with one another without ambiguity. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	CP.2.10.	Explain that Marie and Pierre Curie made radium available to researchers all over the world, increasing the study of radioactivity and leading to the realization that one kind of atom may change into another kind, and so must be made up of smaller parts. <b>Grade 9</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	CP.2.11.	Explain that Rutherford and his colleagues discovered that the heavy radioactive element uranium spontaneously splits itself into a slightly

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

lighter nucleus and a very light helium nucleus.

### Grade 9

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

CP.2.12.

Describe that later, Austrian and German scientists showed that when uranium is struck by neutrons, it splits into two nearly equal parts plus one or two extra neutrons. Note that Lise Meitner, an Austrian physicist, was the first to point out that if these fragments added up to less mass than the original uranium nucleus, then Einstein's special relativity theory predicted that a large amount of energy would be released. Also note that Enrico Fermi, an Italian working with colleagues in the United States, showed that the extra neutrons trigger more fissions and so create a sustained chain reaction in which a prodigious amount of energy is given off.

### Grade 9

Success Highways: Interdisciplinary Connections

#### STANDARD

IN.P.2.

Physics: Historical Perspectives of Physics: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, students understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that they grow or transform slowly through the contributions of many different investigators.

#### PROFICIENCY STATEMENT

P.2.8.

Explain that Marie and Pierre Curie made radium available to researchers all over the world, increasing the study of radioactivity and leading to the realization that one kind of atom may change into another kind, and so must be made up of smaller parts. Note that these parts were demonstrated by Rutherford, Geiger, and Marsden to be small, dense nuclei that contain protons and neutrons and are surrounded by clouds of electrons.

### Grade 9

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

P.2.9.

Explain that Ernest Rutherford and his colleagues discovered that the radioactive element radon spontaneously splits itself into a slightly lighter nucleus and a very light helium nucleus.

### Grade 9

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

P.2.10.

Describe how later, Austrian and German scientists showed that when uranium is struck by neutrons, it splits into two nearly equal parts plus two or three extra neutrons. Note that Lise Meitner, an Austrian physicist, was the first to point out that if these fragments added up to less mass than the original uranium nucleus, then Einstein's special relativity theory predicted that a large amount of energy would be released. Also note

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

that Enrico Fermi, an Italian working with colleagues in the United States, showed that the extra neutrons trigger more fissions and so create a sustained chain reaction in which a prodigious amount of energy is given off.

### Grade 9

Success Highways: Interdisciplinary Connections

## Indiana Standards - Social Studies - Grade 9

**STANDARD** IN.1. Sociology: Foundations of Sociology as a Social Science: Students will describe the development of sociology as a social science, by identifying methods and strategies of research and by examining the contributions of sociology to the understanding of social issues.

**PROFICIENCY STATEMENT** S.1.9. Prepare original written and oral reports and presentations on specific events, people, or historical eras as related to sociological research. (History)

### Grade 9

Success Highways: Interdisciplinary Connections

**STANDARD** IN.11. World History and Civilization: Historical Research: Students will conduct historical research that includes forming research questions, developing a thesis, investigating a variety of primary and secondary sources and presenting their findings with documentation.

**PROFICIENCY STATEMENT** WH.11.2. Locate and use sources found at local and state libraries, archival collections, museums, historic sites, and electronic sites.

### Grade 9

Success Highways: Interdisciplinary Connections

## Indiana Standards - Career / Vocational - Grade 10

**STANDARD** IN.SCANS.1.5. SCANS: Basic Skills: LISTENING: Listen carefully to what a person says, noting tone of voice and body language; respond in a way that shows understanding of what is said.

### Grade 10

Success Highways

Success Highways: Unit 01 - Destination Success

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Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

**STANDARD** IN.SCANS.1.6. SCANS: People Skills: SOCIAL: show understanding, friendliness, and respect for feelings of others; assert oneself when appropriate; take an

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

interest in what people say and why they think and act as they do.

### Grade 10

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

### STANDARD

IN.SCANS.1.9. SCANS: People Skills: TEAMWORK: Contribute to group with ideas and effort; do own share of work; encourage team members; resolve differences for the benefit of the team; responsibly challenge existing procedures, policies, or authorities.

### Grade 10

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

## Indiana Standards - Language Arts - Grade 10

### STANDARD

IN.1. Reading: Word Recognition, Fluency, and Vocabulary Development: Students apply their knowledge of word origins (words from other languages or from history or literature) to determine the meaning of new words encountered in reading and use those words accurately.

### PROFICIENCY STATEMENT

10.1.1. Vocabulary and Concept Development: Understand technical vocabulary in subject area reading.

### Grade 10

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

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Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

### PROFICIENCY

10.1.2. Vocabulary and Concept Development: Distinguish between what words

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### STATEMENT

mean literally and what they imply, and interpret what words imply.

#### Grade 10

Success Highways

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

### PROFICIENCY STATEMENT

10.1.3.

Vocabulary and Concept Development: Use the knowledge of Greek, Roman, and Norse mythology to understand the origin and meaning of new words.

#### Grade 10

Success Highways: Unit 01 - Destination Success

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 03 - Highway Connections

Success Highways: Unit 04 - Highway Roadblocks - Managing Stress

Success Highways: Unit 05 - Highway to Well-being

Success Highways: Unit 06 - Highway to Motivation

Success Highways: Unit 07 - Creating a Success Highways Itinerary

### STANDARD

IN.2.

Reading: Reading Comprehension (Focus on Informational Materials): Students read and understand grade-level-appropriate material. They analyze the organizational patterns and evaluate authors' arguments and positions. At Grade 10, in addition to regular classroom reading, students read a wide variety of classic and contemporary literature, poetry, magazines, newspapers, reference materials, technical resources, and online information.

### PROFICIENCY STATEMENT

10.2.3.

Comprehension and Analysis of Grade-Level-Appropriate Text: Demonstrate use of sophisticated technology by following technical directions.

#### Grade 10

Success Highways: Unit 02 - Highway to Confidence

Success Highways: Unit 05 - Highway to Well-being

### STANDARD

IN.4.

Writing: Writing Process: Students discuss ideas for writing with other writers. They write coherent and focused essays that show a well-defined point of view and tightly reasoned argument. Students progress through the stages of the writing process (prewriting, writing, editing, and revising).

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	10.4.4.	Research and Technology: Use clear research questions and suitable research methods, including text and electronic resources and personal interviews, to compile and present evidence from primary and secondary print or Internet sources. <b>Grade 10</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	10.4.5.	Research and Technology: Develop the main ideas within the body of the composition through supporting evidence, such as scenarios, commonly held beliefs, hypotheses, and definitions. <b>Grade 10</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	10.4.9.	Research and Technology: Use a computer to design and publish documents by using advanced publishing software and graphic programs. <b>Grade 10</b> Success Highways: Interdisciplinary Connections
STANDARD	IN.5.	Writing: Writing Applications (Different Types of Writing and Their Characteristics): At Grade 10, students combine the rhetorical strategies of narration, exposition, persuasion, and description to produce texts of at least 1,500 words. Students compose business letters.
PROFICIENCY STATEMENT	10.5.2.	Write responses to literature that: Demonstrate a comprehensive grasp of the significant ideas of literary works; Support important ideas and viewpoints through accurate and detailed references to the text or to other works; Demonstrate awareness of the author's style and an appreciation of the effects created; Identify and assess the impact of ambiguities, nuances, and complexities within the text; Extend writing by changing mood, plot, characterization, or voice. <b>Grade 10</b> Success Highways: Interdisciplinary Connections
PROFICIENCY STATEMENT	10.5.3.	Write expository compositions, including analytical essays and research reports that: Gather evidence in support of a thesis (position on the topic), including information on all relevant perspectives; Communicate information and ideas from primary and secondary sources accurately and coherently; Make distinctions between the relative value and significance of specific data, facts, and ideas; Use a variety of reference sources, including word, pictorial, audio, and Internet sources to locate information in support of a topic; Include visual aids by using technology to organize and record information on charts, maps, and graphs; Anticipate and address readers' potential misunderstandings, biases, and expectations; Use technical terms and notations accurately. <b>Grade 10</b> Success Highways: Interdisciplinary Connections

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

**PROFICIENCY STATEMENT** 10.5.4. Write persuasive compositions that: Organize ideas and appeals in a sustained and effective fashion with the strongest emotional appeal first and the least powerful one last; Use specific rhetorical (communication) devices to support assertions, such as appealing to logic through reasoning; appealing to emotion or ethical belief; or relating a personal anecdote, case study, or analogy; Clarify and defend positions with precise and relevant evidence, including facts, expert opinions, quotations, expressions of commonly accepted beliefs, and logical reasoning; Address readers' concerns, counterclaims, biases, and expectations.

**Grade 10**

Success Highways: Interdisciplinary Connections

**PROFICIENCY STATEMENT** 10.5.8. Write for different purposes and audiences, adjusting tone, style, and voice as appropriate.

**Grade 10**

Success Highways: Interdisciplinary Connections

**STANDARD** IN.7. Listening and Speaking: Listening and Speaking Skills, Strategies, and Applications: Students formulate thoughtful judgments about oral communication. They deliver focused and coherent presentations of their own that convey clear and distinct perspectives and solid reasoning. Students deliver polished formal and extemporaneous presentations that combine the traditional speech strategies of narration, exposition, persuasion, and description. They use gestures, tone, and vocabulary appropriate to the audience and purpose. Students use the same Standard English conventions for oral speech that they use in their writing.

**PROFICIENCY STATEMENT** 10.7.1. Comprehension: Summarize a speaker's purpose and point of view and ask questions concerning the speaker's content, delivery, and attitude toward the subject.

**Grade 10**

Success Highways

Success Highways: Unit 01 - Destination Success

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Success Highways: Unit 07 - Creating a Success Highways Itinerary

### Indiana Standards - Mathematics - Grade 10

**STANDARD** IN.PS.1. Probability and Statistics: Descriptive Statistics: Students gather and display data, and use measures of central tendency and variability.

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

**PROFICIENCY STATEMENT** PS.1.2. Compute and use mean, median, mode, weighted mean, geometric mean, harmonic mean, range, quartiles, variance, and standard deviation.

**Grade 10**

Success Highways: Interdisciplinary Connections

Success Highways: Unit 01 - Destination Success

**STANDARD** IN.PS.2. Probability and Statistics: Probability: Students solve problems involving the use of probability and probability distributions.

**PROFICIENCY STATEMENT** PS.2.7. Compute and interpret the mean and variance of a probability distribution.

**Grade 10**

Success Highways: Interdisciplinary Connections

Success Highways: Unit 01 - Destination Success

### Indiana Standards - Science - Grade 10

**STANDARD** IN.C.1. Chemistry I: Principles of Chemistry: Students begin to conceptualize the general structure of the atom and the roles played by the main parts of the atom in determining the properties of materials. They investigate, through such methods as laboratory work, the nature of chemical changes and the role of energy in those changes.

**PROFICIENCY STATEMENT** C.1.26. The Structure of Matter: Describe physical changes and properties of matter through sketches and descriptions of the involved materials.

**Grade 10**

Success Highways: Interdisciplinary Connections

**PROFICIENCY STATEMENT** C.1.27. The Structure of Matter: Describe chemical changes and reactions using sketches and descriptions of the reactants and products.

**Grade 10**

Success Highways: Interdisciplinary Connections

**STANDARD** IN.C.2. Chemistry I: Historical Perspectives of Chemistry: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, students understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that these ideas grow or transform slowly through the contributions of many different investigators.

**PROFICIENCY STATEMENT** C.2.1. Explain that Antoine Lavoisier invented a whole new field of science based on a theory of materials, physical laws, and quantitative methods, with the conservation of matter at its core. Recognize that he persuaded a generation of scientists that his approach accounted for the

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

experimental results better than other chemical systems.

**Grade 10**

Success Highways: Interdisciplinary Connections

PROFICIENCY  
STATEMENT

C.2.2.

Describe how Lavoisier's system for naming substances and describing their

**Grade 10**

Success Highways: Interdisciplinary Connections

PROFICIENCY  
STATEMENT

C.2.3.

Explain that John Dalton's modernization of the ancient Greek ideas of element,

**Grade 10**

Success Highways: Interdisciplinary Connections

STANDARD

IN.ENV.2.

Environmental Science: Historical Perspectives of Environmental Science: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, they understand that new ideas are limited by the context in which they are conceived, that the ideas are often rejected by the scientific establishment, that the ideas sometimes spring from unexpected findings, and that the ideas grow or transform slowly through the contributions of many different investigators.

PROFICIENCY  
STATEMENT

Env.2.2.

Explain that Henry Cowles found the Indiana Dunes and Lake Michigan shoreline area a natural laboratory for developing important principles of plant succession.

**Grade 10**

Success Highways: Interdisciplinary Connections

STANDARD

IN.CP.2.

Integrated Chemistry: Historical Perspectives of Integrated Chemistry - Physics: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, they understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that these ideas grow or transform slowly through the contributions of many different investigators.

PROFICIENCY  
STATEMENT

CP.2.2.

Describe how Lavoisier's system for naming substances and describing their reactions contributed to the rapid growth of chemistry by enabling scientists everywhere to share their findings about chemical reactions with one another without ambiguity.

**Grade 10**

Success Highways: Interdisciplinary Connections

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

PROFICIENCY STATEMENT	CP.2.10.	<p>Explain that Marie and Pierre Curie made radium available to researchers all over the world, increasing the study of radioactivity and leading to the realization that one kind of atom may change into another kind, and so must be made up of smaller parts.</p> <p><b>Grade 10</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	CP.2.11.	<p>Explain that Rutherford and his colleagues discovered that the heavy radioactive element uranium spontaneously splits itself into a slightly lighter nucleus and a very light helium nucleus.</p> <p><b>Grade 10</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	CP.2.12.	<p>Describe that later, Austrian and German scientists showed that when uranium is struck by neutrons, it splits into two nearly equal parts plus one or two extra neutrons. Note that Lise Meitner, an Austrian physicist, was the first to point out that if these fragments added up to less mass than the original uranium nucleus, then Einstein's special relativity theory predicted that a large amount of energy would be released. Also note that Enrico Fermi, an Italian working with colleagues in the United States, showed that the extra neutrons trigger more fissions and so create a sustained chain reaction in which a prodigious amount of energy is given off.</p> <p><b>Grade 10</b> Success Highways: Interdisciplinary Connections</p>
STANDARD	IN.P.2.	<p>Physics: Historical Perspectives of Physics: Students gain understanding of how the scientific enterprise operates through examples of historical events. Through the study of these events, students understand that new ideas are limited by the context in which they are conceived, that these ideas are often rejected by the scientific establishment, that these ideas sometimes spring from unexpected findings, and that they grow or transform slowly through the contributions of many different investigators.</p>
PROFICIENCY STATEMENT	P.2.8.	<p>Explain that Marie and Pierre Curie made radium available to researchers all over the world, increasing the study of radioactivity and leading to the realization that one kind of atom may change into another kind, and so must be made up of smaller parts. Note that these parts were demonstrated by Rutherford, Geiger, and Marsden to be small, dense nuclei that contain protons and neutrons and are surrounded by clouds of electrons.</p> <p><b>Grade 10</b> Success Highways: Interdisciplinary Connections</p>
PROFICIENCY STATEMENT	P.2.9.	<p>Explain that Ernest Rutherford and his colleagues discovered that the radioactive element radon spontaneously splits itself into a slightly lighter nucleus and a very light helium nucleus.</p>

## Scholarcentric – Success Highways Correlation to Indiana Standards (Grades 7 – 10)

### Grade 10

Success Highways: Interdisciplinary Connections

#### PROFICIENCY STATEMENT

P.2.10.

Describe how later, Austrian and German scientists showed that when uranium is struck by neutrons, it splits into two nearly equal parts plus two or three extra neutrons. Note that Lise Meitner, an Austrian physicist, was the first to point out that if these fragments added up to less mass than the original uranium nucleus, then Einstein's special relativity theory predicted that a large amount of energy would be released. Also note that Enrico Fermi, an Italian working with colleagues in the United States, showed that the extra neutrons trigger more fissions and so create a sustained chain reaction in which a prodigious amount of energy is given off.

### Grade 10

Success Highways: Interdisciplinary Connections

## Indiana Standards - Social Studies - Grade 10

#### STANDARD

IN.1.

Sociology: Foundations of Sociology as a Social Science: Students will describe the development of sociology as a social science, by identifying methods and strategies of research and by examining the contributions of sociology to the understanding of social issues.

#### PROFICIENCY STATEMENT

S.1.9.

Prepare original written and oral reports and presentations on specific events, people, or historical eras as related to sociological research. (History)

### Grade 10

Success Highways: Interdisciplinary Connections

#### STANDARD

IN.11.

World History and Civilization: Historical Research: Students will conduct historical research that includes forming research questions, developing a thesis, investigating a variety of primary and secondary sources and presenting their findings with documentation.

#### PROFICIENCY STATEMENT

WH.11.2.

Locate and use sources found at local and state libraries, archival collections, museums, historic sites, and electronic sites.

### Grade 10

Success Highways: Interdisciplinary Connections