Adams 12 Five Star Schools
Seventh Grade Report Card Folder

Introduction to Your Child’s Report Card

There are two components to each student report.

Standards Performance Levels:

<table>
<thead>
<tr>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Understanding of the Standard</strong></td>
<td><strong>Meets the Standard</strong></td>
<td><strong>Approaches the Standard</strong></td>
<td><strong>Does not meet the Standard</strong></td>
</tr>
<tr>
<td>The student’s work goes substantially above and beyond the assessment or course standards in quality and evidence of understanding. The work includes complexity, sophistication, originality, depth, synthesis and/or application that clearly exceeds what would be expected to meet the standards in this assessment.</td>
<td>The student demonstrates a strong fundamental understanding of the standard</td>
<td>The student demonstrates some evidence of learning and understanding that aligns with the standard; however the evidence doesn’t demonstrate a thorough grasp of the standard.</td>
<td>The student has demonstrated little evidence of understanding the standard or has not met the majority of performance indicators or criteria for the standard.</td>
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Scholarly Habits:

Each student is evaluated on the scholarly habits that Adams 12 Five Star Schools has identified as essential for educating the whole child. These scholarly habits are scored using a 1-4 scale with a 1 meaning the habit is almost never observed and a 4 meaning the habit is always observed.

**Respect**
- Scholars value their work, their interactions with others and who they are as a person.

**Preparation**
- Scholars are prepared and ready with all the necessary tools for learning.

**Risk Taking**
- Scholars take intellectual risks and think outside the box.

**Perseverance**
- Scholars don’t give up. They keep going, even when the work is hard.

**Excellence**
- Scholars take pride in their work and seek to achieve excellence.

Please sign and return this folder to your child’s teacher.
SELECTED GRADE LEVEL EXPECTATIONS FOR SEVENTH GRADE STUDENTS

Bulleted (+) items are examples of first grade expectations, but do not represent the entire curriculum

LITERACY

Oral Expression and Listening
Seventh Grade students will know and be able to:
- Present claims and findings effectively, emphasizing important points, using descriptions, details, and examples
- Analyze information presented in diverse media and formats and explain how the ideas clarify a topic or text
- Include multimedia components and displays in presentations to clarify claims and findings and emphasize important points

Reading for All Purposes
Seventh Grade students will know and be able to:
- Use a range of strategies to analyze literary and informational texts
- Cite several pieces of textual evidence to analyze text

Writing and Composition
Seventh Grade students will know and be able to:
- Use the writing process to publish narrative, argument, and informational texts for a variety of audiences and purposes
- Demonstrate a command of grammar, usage, and mechanics of writing

Research and Reasoning
Seventh Grade students will know and be able to:
- Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions
- Identify stereotypes, prejudices, biases, and distortions in own and others’ thinking

MATH

Number Sense, Properties and Operations
Seventh Grade students will know and be able to:
- Extend and apply reasoning about ratios and proportions to solving percent, scale-drawing and unit rate problems in mathematical and real world contexts.
- Formulate, represent and apply algorithms to all types of rational numbers (integers, fractions and decimals) flexibly, accurately and efficiently.

Patterns, Functions and Algebraic Structures
Seventh Grade students will know and be able to:
- Model and solve real world problems with expressions and equations.
- Generate and use equivalent forms of expressions and equations to solve problems.

Data Analysis, Statistics and Probability
Seventh Grade students will know and be able to:
- Compare two data distributions to answer questions about similarities and differences.
- Develop and apply basic mathematical models to determine probabilities.

Shape, Dimension and Geometric Relationships
Seventh Grade students will know and be able to:
- Model and apply the concepts of perimeter, area, surface area and volume to solve problems in real world contexts.
- Apply informal spatial reasoning and proof to geometric figures.

Mathematical Communication
Seventh Grade students will know and be able to:
- Explain mathematical concepts, skills and applications using appropriate mathematical vocabulary.
- Construct logical, complete, and concise mathematical arguments.

Procedural Fluency
Seventh Grade students will know and be able to:
- Organize and carry out procedural, numeric and symbolic work accurately, efficiently and flexibly.
- Select and apply appropriate and efficient strategies to make deductions and solve problems.
SOCIAL STUDIES

Social Studies in Grade 7 is a survey course of the developments and changes in the Eastern Hemisphere in the areas of history, geography, government and economics. Topics in this course will include the ancient civilizations of: China, Greece, African Kingdoms and Rome and the Medieval World. Students will also explore the role of supply and demand and how it influences price.

Content
Seventh Grade students will know and be able to:
- Identify key content connected to the Eastern Hemisphere in the areas of geography, economics, history and civics
- Identify the effects of the distribution of resources throughout the Eastern Hemisphere
- Compare rights and responsibilities of citizens within various governmental structures

Conceptual Understanding
Seventh Grade students will know and be able to:
- Evaluate how and why societies in the Eastern Hemisphere changed over time
- Use geographic tools to investigate geographic patterns
- Evaluate the connection of societies in the Eastern Hemisphere

Communication
Seventh Grade students will know and be able to:
- Evaluate multiple historical sources to formulate a thesis about a historical question
- Provide an accurate summary of sources

Research and Source Analysis
Seventh Grade students will know and be able to:
- Interpret events from multiple perspectives
- Determine the central ideas or information of primary and secondary sources
- Using technology to research a variety of topics related to the Eastern Hemisphere

SCIENCE

Science in Grade 7 builds on previous knowledge of chemistry, physical, earth, and life sciences to understand the natural world. Students learn how scientists study the world through a look at cell structures and functions, growth and development of organisms, matter and energy flow in organisms, heredity, chemical reactions, and human activity.

Disciplinary Core Ideas (content)
Seventh grade students will know and be able to:
- Construct explanations related to the structures and processes within organisms (i.e. cells; growth and development of organisms; heredity; variation of traits).
- Develop models that represent matter and energy in organisms (i.e. chemical reactions; energy flow and energy transfer in ecosystems).
- Present an argument related to human impacts on Earth systems.

Science Practices
Seventh grade students will know and be able to:
- Apply key practices that scientists use as they investigate our world.
- Demonstrate science practices through asking questions, developing and using models, planning and carrying out investigations, using mathematics, analyzing and interpreting data, constructing explanations and arguments by making a claim and supporting their ideas using evidence, and by obtaining, evaluating and communicating information.

Crosscutting Concepts
Seventh grade students will know and be able to:
- Apply key concepts in order to develop a scientific view of the world. These concepts are embedded in the Disciplinary Core Ideas and Science Practices for each unit.
- Observe, describe, and apply concepts related to patterns, cause and effect, scale, proportion, and quantity, energy and matter, structure and function, stability and change, and the interactions of systems in the natural world (i.e. energy flow among organisms).

Communication
Seventh grade students will know and be able to
- Explain their understanding of science content in a way that is clear and appropriate for the task, purpose and audience.
- Present arguments related to scientific ideas that are logical and supported with evidence (communication of content can be expressed in a variety of ways including but not limited to: writing in science journals, oral presentations, demonstrating a scientific model, etc.).
Engineering

Engineering in Grade 7 introduces criteria and constraints to successful solutions taking into account the larger context of the problem and the limits to possible solutions. Students learn to identify elements of existing solutions and combine them to create new solutions. Students are expected to determine an optimal design through using systematic methods comparing different solutions and how each combination of elements best meets criteria and constraints. Student learns to test and revise solutions multiple times.

Disciplinary Core Ideas

*Grade 7 students will know and be able to:*
- Define and delimit engineering problems by precisely defining criteria and constraints. Specification of constraints includes consideration of scientific principles and other relevant knowledge that are likely to limit possible solutions.
  - Define problems and/or propose solutions related to the structure and function of cells systems and tissues in living organisms.
  - Define problems and/or propose solutions that arise from plant reproduction, genetic factors and local conditions for adult plants.
  - Define problems and/or propose solutions arising from photosynthesis and the organisms (including algae and phytoplankton) that use light to make sugar (food).
  - Define problems and/or propose solutions based on the inheritance and variation of genetic traits.
- Develop, test and systematically modify solutions to a problem multiple times in order to improve on the design.
- Optimize the design solution by identifying the characteristics of the design that performed best, combining characteristics and engaging in the iterative process of testing promising solutions and modifying to greater refinement.

Science and Engineering Practices

*Grade 7 students will know and be able to:*
- Define a problem that can be solved through the development of an object, tool, process or system including criteria and constraints.
  - Undertake a design project, engaging in the design cycle, to construct and/or implement a solution that meets specific design criteria and constraints.
- Develop a model to generate data to test ideas about designed systems, including those representing inputs and outputs.
  - Develop and use a model to describe phenomena.
  - Develop a model to predict and/or describe phenomena.
  - Develop a model to describe unobservable mechanisms.
- Analyze and interpret data including quantitative analysis. Distinguish between correlation and causation. Utilize basic statistical techniques to analyze data and error potential.
  - Analyze and interpret data to determine similarities and differences in findings.

Crosscutting Concepts

*Grade 7 students will know and be able to:*
- Apply key concepts of science, engineering and technology in predicting short and long-term consequences of designs (positive and negative) on society and the natural world.
  - Cause and effect
  - Scale, proportion, and quantity
  - Systems and system models
  - Energy and matter
  - Structure and function
- Apply knowledge of individual or societal needs, desires, and values on the uses and limitations of use of technologies in relation to scientific findings and factors of climate, natural resources and economic conditions.

Communication

*Grade 7 students will know and be able to:*
- Engage in argument from evidence gathered in the iterative process of solution design.
  - Gather, read, and synthesize information from multiple appropriate sources and assess the credibility, accuracy, and possible bias of each publication and methods used, and describe how they are supported or not supported by evidence.
- Communicate information about the problem, criteria, constraints, design process and solution.
- Communicate about possible positive and negative consequences of a solution.

For more information about what your child needs to learn at this grade level, visit our website at [http://www.adams12.org](http://www.adams12.org) and click on Parents link and then Student Learning.