

# **EIGHTH GRADE POWER STANDARDS LANGUAGE ARTS - READING**

By the end of eighth grade reading, the student will:

- Independently read, comprehend, and analyze through inferencing, interpreting, and evaluating selected text at the eighth grade level, determine the meaning of words using a variety of strategies, identify and understand figurative language and literary devices.

## **EIGHTH GRADE POWER STANDARDS LANGUAGE ARTS - WRITING AND SPEAKING**

By the end of the eighth grade, the student will be able to:

- Write persuasive essays demonstrating the correct usage of conventions
- Write narrative essays demonstrating the correct usage of conventions
- Understand and use ISAT writing rubrics
- Deliver planned oral presentations, one which will incorporate presentation software
- Organize and integrate information from a variety of sources
- Use available technology to produce a variety of writings
- Organize and report information in oral, visual, and electronic formats
- Use standard English to edit documents for grammatical clarity

# **EIGHTH GRADE POWER STANDARDS MATH**

By the end of eighth grade, the student will be able to:

- Apply knowledge of whole numbers, integers, and rational numbers
- Use appropriate formulas to find perimeters, areas, and volumes of basic shapes
- Solve one and two step algebraic equations and apply algebraic concepts to using proportions, formulas, and functions
- Recognize relationships among geometric shapes and compute measurements of lengths and angles based on those relationships
- Apply statistical tools to analyze and make conjectures about data-solve problems using principles of probability

# **EIGHTH GRADE POWER STANDARDS SCIENCE**

By the end of eighth grade, the student will be able to:

- Design and perform own scientific experiment following scientific method
- Compare how different forms and structures help an organism to adapt to its environment
- Model and describe the chemical and physical characteristics of matter, including interactions of energy with matter
- Describe structures and organizations of cells and tissues, including the role of genetics in cell reproduction
- Describe interactions between solid, earth, oceans, atmosphere and organisms and the cycles within

# **EIGHTH GRADE POWER STANDARDS SOCIAL STUDIES**

By the end of eighth grade, the student will be able to:

- Explain the basic principles and structures of the US government and compare them to the Illinois state government
- Describe the elements of a modern market economy and the effects of government intervention
- Explain the significant events that occurred during the historical development of international relations involving the US
- Identify historically prominent people who demonstrate the importance of individuality in creating political, social and cultural change