

# SCHOOL DISTRICT OF MCFARLAND

## CURRICULUM OVERVIEW



### Sixth Grade

2016 - 2017

This overview is designed to provide information to parents about what is taught in the School District of McFarland in sixth grade. It does not list everything students are taught or all things which students experience. Instead, for each content area, it highlights some state standards and major skills or units that students are taught. For a more in-depth overview, please contact your child's classroom teacher.

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# SIXTH GRADE

## MATH

### Core Connections 1

Students will:

- \* Apply and extend previous understandings of multiplication and division of fractions, rational numbers, and arithmetic to algebraic expressions.
- \* Understand ratio concepts and use ratio reasoning to solve problems.
- \* Compute fluently with multi-digit numbers and find common factors and multiples.
- \* Reason about and solve one-variable equations and inequalities.
- \* Represent and analyze quantitative relationships between dependent and independent variables.
- \* Solve real-world and mathematical problems involving area, surface area, and volume.
- \* Develop understanding of statistical variability.
- \* Summarize and describe distributions.

### Core Connections 2

Students will:

- \* Analyze proportional relationships and use them to solve real-world problems.
- \* Apply and extend previous understandings with rational numbers and know about and approximate numbers that are not rational.
- \* Use properties to operations to generate equivalent expressions.
- \* Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- \* Draw, construct and describe geometrical figures and describe the relationship between them.
- \* Solve real-world and mathematical problems involving angle measure, area, surface area, and volume; including cylinders, cones and spheres.
- \* Use random sampling to draw inferences about a population and draw informal comparative inferences about two populations.
- \* Investigate chance processes and develop, use, and evaluate probability models.

### Core Connections 3

Students will:

- \* Know that there are numbers that are not rational and approximate them by rational numbers.
- \* Work with radicals and integer exponents.
- \* Understand the connection between proportional relationships, lines, and linear equations.
- \* Solve linear equations and pairs of simultaneous linear equations.
- \* Define, evaluate, compare, and use functions to model relationships between quantities.
- \* Understand congruence and similarity using physical models, transparencies, or geometry software.
- \* Understand and apply the Pythagorean Theorem.
- \* Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.
- \* Investigate patterns of association in bivariate data.

#### Areas of Study:

- \* Ratios and Proportional Relationships
- \* Number System
- \* Expressions and Equations
- \* Geometry
- \* Statistics and Probability

## READING/LANGUAGE ARTS

Students will:

- \* Use effective reading strategies.
- \* Read, interpret, critically analyze literature
- \* Discuss literary & non-literary texts.
- \* Read to acquire information
- \* Create writing for a variety of audiences, incorporating a variety of spelling strategies.
- \* Plan, revise, edit, & publish clear writing.
- \* Effectively communicate orally.
- \* Participate effectively in discussions.
- \* Develop vocabulary as a means of improving communication
- \* Use technology to acquire, organize, analyze, and communicate information
- \* Conduct research & inquiry on self-selected or assigned topics.

## SCIENCE

Students will:

- \* Understand that there are unifying themes among scientific disciplines.
- \* Understand that science & scientific understandings have changed over time.
- \* Investigate questions using scientific methods.
- \* Demonstrate basic understanding of the physical sciences.
- \* Understand the characteristics & structures of living things.
- \* Understand the relationship between science & technology.
- \* Use scientific information & skills to make decisions.

#### Areas of Study:

- \* Outdoor education/Camp Timberlee
- \* Mystery Powders
- \* Waves, Sound, & Light
- \* Floaters/Sinkers (Density)
- \* Heat/Temperature \*Science Fair project

## (SOCIAL STUDIES

## GLOBAL STUDIES

... is an integrated curriculum of reading, language arts, and social studies.

#### Areas of Study:

- \* Five themes of Geography, Geography Concepts
- \* South Asia, East Asia, Pacific Rim & the War Lords simulation
- \* Middle East & North Africa, Africa South of the Sahara, Country Study
- \* Western/Eastern Europe, Box Cars Economic Simulation.

# SIXTH GRADE

## ARRE TIME / DEVELOPMENTAL GUIDANCE

### Areas of Study:

- \* Getting to Know You
- \* Identity / Character
- \* Relationships / Conflict
- \* Maturing Physically & Emotionally
- \* Looking back / Looking ahead – Goal setting

## ART

Visual Literacy and Culture: During 6th grade art students will explore the connection between art and culture as well as building an image that communicates.

### Areas of Study :

- \* Printmaking
- \* Acrylic Painting
- \* Still-life Drawing
- \* Watercolor
- \* Daily drawing
- \* Weekly Sketchbook Assignments

## FAMILY CONSUMER SCIENCES

Students will be introduced to a variety of subjects. Activities will include presentations, written work, and classroom projects.

### Areas of Study:

- \* Celebrating Myself
- \* Family
- \* Caring for Younger Children
- \* Sewing a personal pillow
- \* Nutritional Health/ Food Labs
- \* Living Green/ Climate Change

## INFORMATION LITERACY

Students will:

- \* Use library/media/technology to access, organize, create, and communicate information.
- \* Demonstrate the ability to work collaboratively & use information & technology responsibly.
- \* Systematically process resources to accomplish outcomes & evaluate their appropriateness.
- \* Creatively define problems & identify opportunities, plan & gather information, explore alternatives, implement viable options, & evaluate, defend, & communicate outcomes based on technological knowledge.
- \* Understand that technology affects society & the environment in ways that are both planned & unplanned, desirable & undesirable, as well as short term & long term in nature.
- \* Be encouraged to develop a life-long interest in reading.

### Areas of Study:

- \* Guidelines of Using a Library
- \* Location of Library Materials for Research & Problems Solving
- \* Design Development
- \* Mass Production
- \* Book talks of award-winning titles
- \* Research Skills

## MUSIC: Vocal and Instrumental

Students will:

- \* Sing a varied repertoire of music.
- \* Play varied instruments.
- \* Improvise/compose/arrange music (music composition).
- \* Read/notate/analyze/describe music (music theory).
- \* Evaluate music & performances
- \* Relate music to other arts & disciplines
- \* Relate music to history & culture (music history).

Opportunities/Experiences include:

- \* General Music
- \* Choir
- \* Orchestra
- \* Concert Band
- \* Marching band
- \* Fiddles on Fire
- \* Jazz Ensemble
- \* Local/District Solo/Ensemble Festival

## PHYSICAL EDUCATION

Students will:

- \* Exhibit a physically active lifestyle.
- \* Understand that physical activity provides opportunities for enjoyment, challenge, self-expression & social interaction.

### Areas of Study:

- \* Low-organized Games
- \* Fitness & Fitness Testing
- \* Soccer
- \* Line and Square Dancing
- \* Track & Field \* Square Dancing
- \* Basketball
- \* Volleyball
- \* Swimming

## TECHNOLOGY AND ENGINEERING

Students will:

- \* Understand how series and parallel circuits function
- \* Understand how resistors, LEDs and lamps function
- \* Build a model of a telegraph
- \* Use a multi-meter to measure volts and resistance
- \* Understand how electromagnets function
- \* Develop basic skills for hand and power tool use
- \* Develop skills to sand and finish wood
- \* Build a small wood tray
- \* Learn to program a VEX IQ Drive A Bot using the RobotC Graphical language

## WORLD LANGUAGES

### Exploratory French & Spanish

Students will:

- \* Be introduced to the world languages of French & Spanish;
- \* Learn the benefits of second language study and application to their lives
- \* Develop introductory skills involving listening, reading, speaking, and writing in the target language, while embedded in the culture of that language.