

Applications of Learning

Through Applications of Learning, students demonstrate and deepen their understanding of basic knowledge and skills. These applied learning skills cross academic disciplines and reinforce the important learning of the disciplines. The ability to use these skills will greatly influence students' success in school, in the workplace and in the community. (ISBE, Illinois Learning Standards, 1999)

- **Solving Problems** – Recognize and investigate problems; formulate and propose solutions supported by reason and evidence
- **Communicating** – Express and interpret information and ideas
- **Using Technology** – Use appropriate instruments, electronic equipment, computers and networks to access information, process ideas and communicate results
- **Working in Teams** – Learn and contribute productively as individuals and as members of groups
- **Making Connections** – Recognize and apply connections of important information and ideas within and among learning areas

Language Arts

Through the literary elements of fiction, traditional literature, poetry, biography and non-fiction children will experience a wide range of instructional activities in listening, reading, writing, discussing and/or speaking.

Reading

- Apply word analysis and vocabulary skills for comprehension
- Apply reading strategies to improve fluency
- Comprehend a broad range of reading materials
- Understand how literary elements and techniques are used to convey meaning
- Read and interpret a variety of literary works for a variety of purposes
- Utilize a variety of strategies and references to learn and use new words
- Utilize multiple reading strategies

Writing

- Use correct grammar, spelling, punctuation, capitalization and structure
- Compose well-organized and coherent writing for specific purposes and audiences
- Communicate ideas in writing to accomplish a variety of purposes
- Draft, revise, edit and proofread writing

Listening and Speaking

- Listen effectively in formal and informal situations
- Speak effectively using language appropriate to situation and audience

Mathematics

- Solve one and two- step linear equations with rational numbers and integers
- Use order of operations to evaluate expressions with rational numbers

- Investigate linear functions in tables and graphs for four quadrants, using real-world data and measurements
- Analyze functional relationships to explain how the change in one quantity results in a change in another
- Explore the properties of right triangles including the Pythagorean theorem and connect to algebra
- Investigate various probability statistics for actual data and theoretically predicted results in experiments
- Formulate conjectures and interpret data presented in surveys, census, spreadsheets, databases, graphs, tables, maps

Science

Life Science – Genetics

- Punnett squares, traits, crosses and genetic engineering

Physical Science – Chemistry

- Density, atomic theory, Periodic Table
- States of matter, physical/ chemical properties, chemical bonding
- Formula and reactions
- Finding an unknown, graphing

Earth and Space Science – Earth's Place in the Universe

- Formation theory, organization of the universe, life cycle of stars

Solar System

- Research planets and technology

Physics of Flight and Rocketry

- Bernoulli's principles
- Design and build probes, technology and presentation
- Math of motion, circulation motion, projectile motion

Science as Inquiry

Safety, organizing, graphing and interpreting data, measurement skills, observing vs. inferring, lab reports/experimental design, independent and dependent variables, predicting vs.

hypothesizing, what is science

Science, Technology and Society

History of science, science in the new millennium, misrepresentations and misconceptions in science, how science solves problems of society, how technology affects society, current trends in science, using technology in scientific inquiry, models and simulations, limitations of technology, trade-offs, evolution of science and technology, careers in science and/or technology

Social Studies

- Understand U.S. then and now: American democracy, government.; state and national constitutions, civil rights and liberties economic development, geography and environment, conflicts and cooperation, influence of technology, cultural diversity, U.S. role in the world affairs, settlement patterns in USA: then and now

- Understand citizenship, service work, mentoring and volunteerism in America
- Analyze and interpret political cartoons
- Determine American and global celebrations
- Understand geography past and present
- Determine geographical influences on exploration, settlement, expansion and wars

World Languages

By the end of eighth grade, students will:

- Comprehend main messages of simple oral and audio presentations
- Follow instructions in the target language
- Respond to open-ended questions and initiate communication
- Produce language with improved pronunciation, intonation and inflection
- Use appropriate non-verbal cues
- Demonstrate selected customs, manners and traditions in societies associated with the target language
- Create simple print and/or non-print media messages (e.g. advertisements, posters, television, radio, brochures, web sites)
- Describe geographical aspects (e.g. population distribution, natural resources and main economic activities) of areas where the target language is spoken
- Use the target language to gather and organize data
- Use the target language to describe physical and geological features, vegetation and animal life indigenous to areas where the target language is spoken
- Use the target language to identify and describe occupations unique to the areas where the target language is spoken

Information Literacy Skills

Under development

Physical Education/Wellness

By the end of eighth grade students will;

- Demonstrate a variety of life sports, dance, and fitness related skills and self-evaluate the status of their physical fitness through the collection and analysis of fitness data
- Develop and execute a personal fitness plan and evaluate their fitness status through collection and analysis of fitness data
- Demonstrate complex movement skills in a variety of selected individual, team and fitness activities and evaluate the healthful effect of these activities
- Recognize the affective benefits derived from regular participation in physical activity

Health

By the end of eighth grade, students will:

- Compare and contrast the major physical and mental developmental changes occurring during puberty
- Summarize the principles of good nutrition, proper use of drugs, physical and emotional

8th Grade Curriculum

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health and assess how behavior can influence health maintenance and disease prevention

- Analyze and evaluate problems in consumer and environmental health and safety through application of research skills
- Develop and execute a personal fitness plan and evaluate their fitness status through the collection and analysis of fitness data
- Demonstrate basic first aid and life saving skills

General Music

Students will have instructional and experiential activities in:

- Interactive listening process involving music perception, cognition, analysis, and evaluation resulting in aesthetic awareness
- Personal experiential interaction with music through singing, playing, performing and moving
- Creative composition /arranging for organized sound designed to express feelings
- Spontaneous creation of original music
- Formal /constructive elements of music theory, vocabulary, syntax and symbolic representations of music
- Historical, social and cultural context for musical insight
- Musical performances

Instrumental Music

Students selecting instrumental music instruction will:

- Write on manuscript paper, 12 major scales using key signature and appropriate clefs
- Define, pronounce, and perform music vocabulary
- Identify various musical forms
- Perform a solo with correct dynamics, phrasing, articulation, rhythms and fingering
- Demonstrate ability to match pitch and sound, basic call and response patterns over four beats and basic ensemble skills
- Identify by sound different instruments, major and minor triads and intervals: major and minor second, third, perfect fifth and octave

Fine Arts (to be implemented)

- Recognize, identify, and demonstrate an understanding of the sensory elements and organizational principles of design as well as the expressive qualities of the visual arts
- Recognize, identify, and demonstrate the basic use of materials and tools in order to understand how works of art are produced
- Create individual works of visual art
- Understand that works of art shape, reflect and play a role in societies, cultures and civilizations

Home Economics (Family and Consumer Science)

Consumer Sciences Education equips students with relationship and life skills needed to manage challenges of living in a diverse

society across their lifespan. Categories of Family and Consumer Sciences Curriculum include:

- Career, community and family connections
- Consumer and family resources
- Family, social units and interpersonal relationships
- Human development, parenting and child care
- Food, nutrition and wellness
- Housing, fashion and interior design

Industrial Arts (Technology Education)

Under development

Drama

- Understand and use primary tools (body, mind, voice) and support tools (costumes, scenery, props, lights, etc.) to convey ideas through acting, playwriting and designing a drama or theater activity
- Experience storytelling, improvising and memorizing scripted material needed to create and perform in drama/theater

“Quality education is best delivered through a partnership of teachers, family and community.”

ST. SAVA ACADEMY

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“We offer a comprehensive, results oriented bilingual curriculum in an engaging and loving learning environment.”