



P A R K C I T Y
D A Y S C H O O L

5th Grade Curriculum

Lower School Divisional Overview

The Lower School program at Park City Day School focuses on the cognitive, social, physical, and emotional development of the whole child. Students are engaged in authentic learning, decision-making, and problem solving activities which help develop higher level thinking skills. Additionally, our program inculcates high ethical standards based upon cooperation, appreciation, and respect. Learning to collaborate with classmates, being honest, kind, and hard-working members of the community are hallmarks of sound personal development, fundamental to achievement, and essential to leading healthy, fulfilling lives.

A typical day in the classroom includes a variety of imaginative learning activities emphasizing a love for learning and mastering the fundamentals of core subjects. Individual and diverse learning styles are recognized and supported, while academic strengths are challenged and weaknesses are identified and addressed. In addition, cross-grade level opportunities, environmental education, and service-learning enrich the lives of our students. Our low student-to-teacher ratio creates a positive, nurturing environment enhanced by educational field trips, and age-appropriate outdoor educational ventures. A rich array of art, music, physical education, and foreign language classes complement and extend core offerings, which broadens learning, deepens appreciation, and assimilates educational experiences.

The Lower School Program integrates academic achievement, creativity, positive group interaction, and social responsibility. Our goal is to produce dynamic citizens and inspire future leaders.



Lower School Academic Technology

Based upon the [ISTE standards for Educational Technology](#), the PCDS technology program promotes an integrated approach to technology literacy. Woven into the daily routines and subjects taught in the classroom, teachers utilize a variety of forward thinking, innovative resources to deliver a rich array of content designed to engage and develop higher order thinking skills in an authentic learning environment. Students have opportunities to select appropriate technology resources, collaborate, problem solve, and communicate ideas not only within the classroom; but across a broad spectrum of local and international settings.

LS Laptop Program (K-5)

In grades Kindergarten through fourth, children engage in the process of learning computer vocabulary, appropriate use, and care for a computer. In addition to the elementary understanding of computer usage, children have opportunities to explore topical, interactive websites to enrich specific subject content, practice learning skills, and begin producing technology based projects.

Skills

The student will be able to:

- Employ skills acquired at previous levels
- Navigate the internet using the “favorites” tab (K-2)
- Utilize creative programs such as Paint (K-2)
- Understand Internet search methods (3-5)
- Discriminate between appropriate and useful websites and irrelevant websites (4-5)
- Develop early typing skills (2-5)
- Utilize various word processing programs (3-5)
- Utilize various presentation methods (4-5)
- Utilize online document sources such as Google docs (4-5)
- Understand proper care and maintenance for a laptop computer

Suggested Learning Activities

- Digital Field trips
- Digital storytelling
- Podcasts
- Streaming video presentations
- Discussion forums
- Multimedia presentations
- Graphic organizers
- ePortfolios

ISTE Standards

Research and Information Fluency
Creativity and Innovation
Communication and Collaboration
Digital Citizenship
Technology Operations and Concepts

Assessment

- Formative
- Summative
- Rubric based



5th Grade Language Arts

Content

Word analysis: Vocabulary, Spelling
Verbal reasoning
Reading: Fluency, Comprehension
Writing mechanics
Writing and composition

Auditory comprehension
Public speaking and presentation
Study skills
Technology

Skills

The student will be able to:

Word Analysis

- Infer the meaning of a word in the context of a sentence
- Identify synonyms and antonyms of a word
- Distinguish word connotations
- Recognize word roots
- Apply and use contractions and compound words correctly
- Recognize and use homophones, homonyms and homographs
- Understand and apply idioms
- Recognize and apply irregular sound combinations
- Identify possessive nouns, irregular plurals, prefixes and suffixes
- Identify and apply regular and irregular spelling combinations
- Recognize comparatives and superlatives
- Identify vocabulary in context

Verbal Reasoning

- Recognize relationships between words
- Recognize elements that do or do not belong to a thematically-grouped list of words
- Make a generalization about a thematically-grouped list of words
- Solve deductive and inductive problems based upon evidence provided

Reading

- Read using appropriate inflection, tone and punctuation
- Apply previewing techniques
- Make connections between ideas or concepts in a passage or text
- Synthesize explicit and implicit information to make predictions
- Use explicit and implicit information to determine the author's point of view and purpose
- Summarize information in a passage or text
- Describe the main idea in a passage or text
- Describe a supporting idea in passage

- Compare and contrast elements from two passages or texts
- Synthesize information from two texts to draw conclusions
- Identify cause and effect in a passage or text
- Differentiate between fact and opinion in a passage or text
- Understand different genres

Writing Mechanics

- Identify and apply the parts of speech in a piece of writing
- Identify correct sentence structure
- Effectively combine and subordinate sentence elements
- Identify subjects and predicates
- Identify and apply appropriate subject/verb agreement and verb tenses
- Recognize and use different types of sentences
- Identify and apply correct capitalization and punctuation

Writing and Composition

- Identify and apply appropriate writing process techniques such as brainstorming, drafting, revising, proofreading and publishing
- Apply figurative and literal language to a piece of writing
- Apply effective descriptive details to a piece of writing
- Apply appropriate sequencing to a piece of writing
- Apply *Six Traits of Writing* processes to a variety of prose:
 - Business and friendly letters
 - Expository and informational text
 - Journal writing,
 - Creative writing narratives
 - Personal, persuasive and descriptive writing
 - Reports
 - Poetry



Auditory Comprehension

- Identify vocabulary in context
- Identify explicit details from a passage
- Use implicit information from a passage
- Make connections between pieces of information in a passage
- Synthesize information to make predictions or draw conclusions

Public speaking and Presentation

- Describe ideas and feeling orally
- Share orally ideas and presentations with proper diction and grammar orally
- Read aloud fluently with expression, phrasing and intonation
- Apply appropriate tone, volume, articulation and inflections when speaking
- Use appropriate vocabulary for audience

Study Skills

- Apply appropriate research techniques in a variety of media
- Apply appropriate note-taking techniques
- Apply appropriate summarizing and organization skills to information
- Employ supplemental resources such as charts, graphs, diagrams, etc.
- Identify and apply processes for summarizing and organizing information

Technology

- Apply keyboarding skills
- Use a program or online resource independently to practice skills
- Use a program or online resource to create documents and presentations
- Identify and use the appropriate technology resource for a task

Assessment

- Checklists
- Written assessments
- Weekly and unit comprehension tests
- Teacher observation and anecdotal notes
- Oral and written comprehension responses
- Writing assignments
- Student/teacher conferences
- Editing checklists
- *Daily Oral Language* responses
- Quizzes and tests
- Spelling and vocabulary tests
- Written and oral presentations
- Projects

Textbooks/Resources

Open Court Reading

Six Traits of Writing

Writer's Express

Rebecca Sitton Spelling

Words Their Way

Core Knowledge Language Arts

Books to develop auditory and reading comprehension may include:

Works from a variety of authors including Newberry Award authors, a variety of age-appropriate novels, informational texts, short stories, myths, fables and speeches



5th Grade Mathematics

Content

Number sense and operations
Algebra
Geometry
Measurement
Statistics, data analysis and probability
Problem solving
Reasoning and proof
Connections
Communication
Representation

Skills

The student will be able to:

Number Sense and Operations

- Write improper fractions as mixed numbers/mixed numbers as improper fractions
- Add, subtract, multiply, and divide fractions and mixed numbers
- Convert between decimals, fractions and percents

Algebra

- Use the correct order of operations to solve multi-step equations
- Evaluate exponential expressions
- Use cross products to solve proportions
- Write, solve and graph functions

Geometry

- Locate and Draw lines of symmetry
- Identify corresponding parts of similar triangles
- Calculate area, volume, and perimeter
- Identify, describe and draw polygons, circles and geometric solids
- Calculate radius, circumference and area of a circle
- Describe angles by size and location (acute, right, obtuse, straight, reflex, interior, exterior)
- Perform transformations on polygons in a coordinate plane
- Apply geometry formulas to problem solving
- Plot and locate points in a coordinate plane

Measurement

- Choose appropriate units (Customary and Metric) and tools to measure various attributes
- Round numbers and estimate quantities/amounts

Statistics, Data Analysis and Probability

- Create line graphs, line plots, bar graphs and circle graphs
- Collect data by conducting surveys
- Display data in an appropriate format
- Interpret data from a graph
- Find averages, means, modes
- Judge the likelihood of events happening according to probability constructs



Problem Solving

- Estimate the measurement, quantity, and/or volume of objects
- Break problems into simpler parts
- Use logical reasoning to solve problems and distinguish between relevant and irrelevant information
- Use multiple strategies to solve problems (draw diagrams, make charts, work backwards, use an algorithm)
- Manipulate equations, including missing variables, according to rules of order of operations
- Solve two and three step problems

Reasoning and Proof

- Create and test conjectures
- Generalize from specific algebraic and geometric rules
- Classify and sort geometric shapes by attributes
- Apply algebraic skills to reflect and solve a given problem

Connections

- Find symmetry in nature
- Apply problem solving skills to real life situations

Communication

- Explain divisibility rules
- Describe the difference between prime and composite numbers
- Show the relationship between exponents and square roots

Representation

- Create scale drawings
- Graph functions in a coordinate plane

Assessment

- Pre and post tests
- Quizzes and unit tests
- Math fact assessments
- Investigations and cooperative assignments
- Teacher observation and anecdotal notes
- Daily homework
- Mixed daily practice
- Class participation

Textbooks/Resources

Saxon Math

Everyday Math resources

Hands on Algebra Kit

Math reasoning materials

Computer resources

A wide variety of children's literature illustrating math concepts



5th Grade Science

Content

Physical science
Life science
Earth science and ecology

Content Knowledge

The student will be able to:

Physical Science

- Understand the processes of chemical and physical changes
- Understand the changes in matter during chemical reactions
- Identify the properties of matter: mass, volume, density
- Differentiate between solutions, suspensions, solutes, solvents
- Identify the role as parts of atoms and molecules
- Understand the uses and organization of the Periodic Table

Life Science

- Understand and identify plant/animal cell structures and processes
- Classify living things: plant, animal, fungus, protist, moneran
- Understand animal classification: kingdoms, phylum, class, order, family, genus, species
- Understand the process of inherited traits and characteristics
- Understand variation and adaptation

Earth Science and Ecology

- Understand how fossils are formed and where they may be found in Utah
- Recognize the physical characteristics of Utah's wetlands, forests, and deserts and organisms in each environment
- Recognize common plants and animals found in Utah environments
- Understand the behavior characteristics of Utah animals

Process and Inquiry Skills

The student will be able to:

- Use classification systems
- Use scientific tools and resources such as thermometer, beakers, graduated cylinders, balance, microscopes
- Make observations of objects, patterns, and events
- Describe structure and function of systems
- Collect, record and interpret data
- Make predictions regarding results of investigations
- Compare and contrast processes and events
- Describe and illustrate events or processes
- Create models
- Use numerical data to describe and compare objects or events
- Read tables and graphs
- Problem solve and suggest possible solutions

Assessment

- Cooperative group activities
- Class discussions
- Student evaluation
- Communication and sharing of ideas
- Lab experiments and journals
- Student reflections
- Quizzes and tests

Textbooks/Resources

Discover Science
Various videos, nonfiction books, and Internet sources



5th Grade Social Studies

Content

World studies/cultures
US History
Geography
Government
Civic responsibility

Skills

The student will be able to:

World Studies/Cultures

- Describe the important events related to the Renaissance, the Age of Exploration and Colonization
- Describe relationships among science, technology and society over time

US History

- Identify and describe the historical importance of the following events and figures associated with:
 - Westward Expansion
 - Industrialization/Inventions
 - U.S. Civil War
- Draw upon historical knowledge to examine current social issues

Geography

- Identify and explain how people organize for the production, distribution and consumption of goods and services
- Explain global interdependence

Government

- Explain various aspects, functions and responsibilities of those involved in the process of the U.S government
- Describe how people create and change structures of power, authority and governance
- Explain the ideals, principles and practices of citizenship in a democratic republic

Civic Responsibility

- Apply appropriate leadership skills
- Participate in service learning locally and internationally
- Exercise problem-solving with issues and social problems
- Describe how to make a positive difference through community service, political activities and democratic process
- Identify and explain civic and ethical responsibility within our nation and throughout the world
- Participate in simulations related to leadership and civic responsibility

Assessment

- Tests and quizzes
- Junior Achievement "Biztown"
- Projects
- Writing
- Teacher assessment and anecdotal notes
- Community service
- Presentations
- Speeches
- Group activities
- Cross-cultural exchanges

Textbooks/Resources

Core Knowledge Materials by E.D. Hirsch,
Interact-Simulations: A Learning Experience
Historical Novels: fiction and non-fiction,
Internet
Films, plays, interviews, lectures, graphics, art, music and posters



5th Grade Spanish

Content

Vocabulary

Grammar

Oral Reading and writing

Comprehension/Language Usage

Skills

The student will be able to:

Vocabulary

- Apply previously acquired vocabulary
- Utilize resources to determine appropriate word choice
- Identify and apply descriptive language
- Select most appropriate word to a given situation including emotions, likes/dislikes, activities, and others
- Apply subject specific language to mathematics and social studies

Grammar

- Apply rules for masculine and feminine adjective forms
- Apply noun gender and article agreement
- Apply prepositions of place
- Apply correct verb tense and subject agreement to a variety of commonly used regular and irregular verbs
- Conjugate commonly used regular and irregular verbs

Oral Reading and writing

- Express common greetings, descriptions, calendar information in simple conversational scripts
- Express language in appropriate paragraph format
- Apply essential writing skills such as brainstorming, rough draft, and revisions

Comprehension/Language Usage

- Respond appropriately to greetings, questions, and conversation

Assessment

- Teacher observations and anecdotal records
- Participation in classroom activities
- Completion of in-class written assignments
- Oral Assessments
- Listening Assessments

Textbooks

Practice Makes Perfect, *Exploring Spanish*, and *Muy Bien* level C



5th Grade Visual Arts

Content

Contour line
Blind contour line
Line design – organic and geometric
One point perspective
Value
Color mixing, labeling and categorizing
Tessellations
Visual texture
Implied texture
Ceramic building techniques: pinch, coil, slab
Five stages of clay: wet, leather hard, bone dry, bisque, glaze
Simple vs. complex form
Kiln loading
3-Dimensional design
Additive/subtractive sculpture

Skills

The Student will be able to:

- Define and demonstrate blind contour line, organic and geometric line design
- Define and demonstrate one point perspective
- Use pen & ink techniques to create value
- Recognize visual distortion and one point perspective in art work, photographs, and the environment
- Label a color wheel and recognize these colors in the environment
- Define and demonstrate the use of complementary, analogous, and monochromatic color schemes
- Connect and demonstrate atmospheric color concepts Define and create tessellations
- Define and distinguish between real and implied textures
- Recognize and demonstrate the three building techniques in clay
- Recognize and identify the five stages of clay
- Define and demonstrate negative and positive space in three-dimensional forms
- Define and recognize simple and complex form
- Identify and define additive and subtractive sculpture

Assessment

- Informal observation during class
- One-on-one conversation with students assessing both art work in progress, and after completion
- Physical portfolio containing all student work from one year
- Digital portfolio containing collection of student work from all previous grade levels
- Informal sketchbook assignments
- Informal written reflection
- Written assignments
- Test and quizzes
- Contribution and participation in class discussion
- Participation in school art shows and exhibitions



5th Grade Performing Arts

Content

The elements of music theory and application: history, rhythm, melody, harmony, form, timbre, tone, performance

Skills

The student will be able to:

- Understand the concept of an orchestra and the instruments involved
- Listen to a select repertoire of Classical, Romantic and Contemporary music
- Understand and spell correctly specific musical terminology
- Perform during class solos and ensemble work
- Perform voice/dance/drama during annual performances
- Be able to identify composers and time periods
- Recognize a steady beat, accents and the downbeat
- Play a steady beat
- Move responsively to music
- Recognize short and long sounds
- Discriminate between fast and slow, gradually slowing down and getting faster
- Discriminate between differences in pitch
- Discriminate between loud and quiet, gradually increasing and decreasing volume
- Understand that a melody line can move up and down
- Hum the melody while listening to music
- Echo short rhythms and melodic patterns
- Play simple rhythms and melodies
- Recognize like and unlike phrases
- Recognize timbre (tone color)
- Sing unaccompanied, accompanied and in unison
- Recognize Harmony
- Recognize verse and refrain
- Recognize that musical notes have names
- Recognize a scale as a series of notes
- Sing scales using the Sol-feg system of singing with hand signs
- Understand the following notations:
 - staff, treble clef, names of lines and spaces in treble clef, bar line, double bar line, measure, repeat signs, quarter notes, half notes, dotted half notes, whole notes, eighth notes, quarter rest, half rest, and whole rest.

Assessment

- Performances: in-class and public
- Solo and ensemble singing
- Written quizzes, tests and other assignments
- Aural recognition of selected repertoire



5th Grade Physical Education

Content

Gross motor development
Healthy lifestyle
Creative movement
Teamwork/sportsmanship

Skills

The student will be able to:

- Understand and perform bodyweight exercises
- Demonstrate flexibility and increased agility training over time
- Participate in the *Presidential Physical Fitness Test*
- Participate in team sports such as football, basketball, soccer and volleyball
- Participate in cooperative challenges
- Demonstrate appropriate skills and techniques for a variety of sports
- Identify healthy choices in food and body maintenance
- Identify the influence of physical activity, good nutrition and proper sleeping habits
- Sustain extended periods of activity over time
- Demonstrate eye-hand coordination
- Develop muscular strength through non-weight exercise
- Demonstrate creative movement
- Apply correct technique for various physical activities
- Demonstrate appropriate teamwork and sportsmanship
- Apply strategy to game play independently and cooperatively

Assessment

- Creative movement performance
- Daily participation
- Teacher observation
- Checklists



5th Grade Outdoor Education

Content

Camping/hiking
Mountain/road biking
Rock climbing
Ski mountaineering, snowshoeing, snow science
Nordic skiing and alpine skiing
Emergency skills
Outdoor character development
Health and human performance
Leadership/cooperative challenges
Environmental awareness, conservation and sustainability
Natural science
Reflection and personal introspection

Skills

The student will be able to:

- Set up tents
- Demonstrate trail cooking and cleanup on the trail with partial supervision
- Prepare and pack for: day pack, overnight pack, 3-day, 5-day
- Prepare appropriately for weather conditions
- Display etiquette for biking trails and road trails
- Begin riding on intermediate off-road mountain biking trails
- Identify parts of the bicycle and understand basic mechanics and maintenance
- Demonstrate the ability to change a bicycle tire
- Identify and use the basics of rock-climbing equipment
- Exhibit the ability to tie and adjust a "Figure 8" knot
- Demonstrate the ability to put on and adjust all safety equipment
- Locate hand and foot placement and recognize how to use body weight to the advantage of the climber
- Understand winter weather conditions; avalanche and snow science
- Demonstrate endurance on intermediate and advanced cross-country and alpine skiing trails
- Display cross country ski trail etiquette
- Recognize different emergencies and respond appropriately
- Understand basics of survival in nature
- Extend one's physical and mental comfort level
- Identify needs and find solutions
- Display (age appropriate) self-motivation and self-reliance
- Identify one's own optimal heart rate and work towards that range
- Set personal goals for physical and mental strength and endurance
- Make connections between knowledge of anatomy/physiology, biomechanics, musculature/skeletal systems as it relates to his or her body and activity
- Apply understanding of science to natural environment
- Identify and know local flora and fauna
- Conserve environmental resources
- Practice sustainable camping, hiking and recreation practice

Textbooks/Resources

Local State Parks, Zion National Park, Moab, Utah Science Core Curriculum, Local Mountain Trails, Survival," Laurence Gonzales; NSCA Training, Wasatch Backcountry, Uinta National Forest