

NOTES:



*Exploration Class*  
*Catalog*  
*2016/2017*

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## INTERMEDIATE ESSENTIALS (GRADES 4-8)

These classes complete the FNSBSD science curriculum objectives for grades 4-8 which are aligned with Alaska State Standards.

### INTERMEDIATE

#### SCIENCE (grades 4-8)

___ Star Trek	Offered in 16/17
___ Earthquake	Offered in 16/17
___ Tangled Webs	Offered in 16/17
___ Wave Rave	Offered in 16/17
___ Blood & Guts	Offered in 15/16, 17/18
___ 6 <sup>th</sup> Kingdom	Offered 15/16, 17/18
___ Shocking Experience	Offered 15/16, 17/18
___ Fizzy Formulas	Offered 15/16, 17/18
___ Weather Detectives	Offered 15/16, 16/17
___ Hair Today, Gone Tomorrow (Grades 7/8)	Offered Every Year
___ What Goes Up Must Come Down! (Grades 7/8)	Offered Every Year

#### INTERMEDIATE HISTORY/SOCIAL STUDIES (grades 4-8)

___ Westward Bound! American History 19th Century	Offered in 16/17
___ Map Quest...Geography and current events	Offered in 16/17
___ North To Alaska	Offered in 16/17
___ Colonial Village	Offered in 16/17
___ Do You Dig Mummies... Ancient civilizations	Offered in 15/16, 17/18
___ Treasure Island...The Age of Exploration	Offered in 15/16, 17/18
___ Route 66...US Geography	Offered in 15/16, 17/18
___ Shades of Blue and Gray...Civil War	Offered in 15/16, 17/18
___ It's a Small World...Advanced Geo(Grades 7/8)	Offered every Year
___ We The People...Civics (Grades 7/8)	Offered Every Year

## **PRIMARY ESSENTIALS**

(GRADES 1-3)

**Use this checklist to assist you in planning for registration.**

**All primary essentials are offered every year.**

These classes complete the FNSBSD science curriculum objectives for grades 1-3, which are aligned with Alaska State Standards.

### **PRIMARY SCIENCE (grades 1-3)**

____ Junior Scientists Grade 1	
____ Explore Earth Science Grades 2-3	Recommended for Grade 2
____ Explore Physical Science Grades 2-3	Recommended for Grade 2
____ Explore Motion and Machines Grades 2-3	Recommended for Grade 3
____ Explore AK Life Science Grades 3	

### **PRIMARY HISTORY (grades 1-3)**

____ Our Town... Government & Politics	Recommended for Grade 2
____ American Express Geo & Current Events	Recommended for Grade 2
____ Time Machine...History of Fairbanks	Recommended for Grade 3
____ Me on the Map...World Geography	Recommended for Grade 3

## **PLEASE NOTE:**

- ∞ Some intermediate social studies and science classes are offered on alternating years only. Plan accordingly.
- ∞ Most Spanish and Band Orchestra classes are full year or 2 semester courses. Please register for the appropriate number of quarters (2 or 4).
- ∞ ♦ This symbol indicates that the class will utilize a rigorous curriculum and will be taught at a faster pace than most classes. Only students who are willing and able to meet these standards should register for these classes. Priority will be given to students who have qualified for the ELP program.
- ∞ Middle school science and social studies classes will be open to 6<sup>th</sup> graders with supporting test scores.



## ESSENTIAL PRIMARY SCIENCE

### **\*JR. SCIENTISTS (1)**

~ESSENTIAL SCIENCE~

The Junior Scientists class will introduce science to first grade students. They will focus on the role of plants in the food web, heat, light, weather, and the elements. Students will improve their ability to observe, measure, and predict through simple investigations. They will learn about famous scientists such as George Washington Carver, Orville and Wilbur Wright, and Louis Pasteur.

### **\*EXPLORE EARTH SCIENCE (2-3)**

~ESSENTIAL SCIENCE~

Students will learn about Earth's orbit, tilt, and rotation. This class will discuss the water cycle, erosion, and soil. Students will study famous scientists. In second and third grade, students begin to understand the scientific process and develop skills for scientific inquiry.

### **\*EXPLORE PHYSICAL SCIENCE (2-3)**

~ESSENTIAL SCIENCE~

Students will explore how sound is produced and travels. They will investigate the relationships between force, motion and energy. Students will learn about electricity, and how it is used to produce light, heat, and motion. Students will study famous scientists. In second and third grade, students begin to understand the scientific process and develop skills for scientific inquiry.

### **\*EXPLORE MOTION AND MACHINES (2-3)**

~ESSENTIAL SCIENCE~

Students will learn the six types of simple machines and how they work. Students will design and build a series of simple machines. They will be able to recognize simple machines as parts of other more complex machines. As a class, a complex machine will be invented with which they will apply the concepts of force, motion, and gravity.

### **\*EXPLORE ALASKA LIFE SCIENCE (3)**

~ESSENTIAL SCIENCE~

Learn about plant ecosystems, fossils, and insects with an Alaskan focus. Students will continue to develop their understanding of scientific skills.



## ◇ EXTENDED LEARNING PROGRAM

### **BOARD GAME DESIGN (4-8)**

◇ **Advanced**

From Mancala to Monopoly, Chaturanga to Chess, and Senet to Settlers of Catan; learn about the history and strategy of board games. Explore game theory and play your favorites! Create your own!!

### **PEP!! (Primary Enrichment Program) (1-2)**

◇ **Advanced**

Younger students explore visual, creative, and logical thinking as well as developing attributes and classification skills. Students will be placed in this class through teacher recommendation. Please indicate interest on course selection sheet.

### **CREATIVE PROBLEM SOLVING (4-8)**

◇ **Advanced**

Students learn and practice a six-step problem solving process as they apply it to both local and global issues. This class involves research, reading, discussion, writing, designing, and working with a team while building creative thinking skills. Fluency, flexibility, elaboration, and originality of ideas are emphasized.

### **HISTORY DAY (4-6)**

◇ **Advanced**

Why let the middle school students have all the History Day fun? Explore the 2017 History Day theme, "Taking a Stand in History" by investigating a topic of your choice and creating a website, documentary, performance, essay, or presentation board to enter in the district competition.

### **MINI SOCIETY (5-8)**

\$15.00 fee

◇ **Advanced**

Learn how a corporation is established as you produce, advertise, market, and sell your product for a profit. Meanwhile, learn economic principals such as scarcity, supply and demand, and the characteristics of a free market economy. Be an entrepreneur and form your own company!

## **◆ EXTENDED LEARNING PROGRAM**

These classes will utilize a rigorous curriculum and will be taught at a faster pace than most classes. Only students who are willing and able to meet these standards should register for these classes. Priority will be given to students who have qualified for the ELP program.

### **MYSTERY THEATER (4-8)**

#### **◆ Advanced**

Students will assume the role of various characters and potential crime suspects while using clues revealed during mystery luncheon parties and forensic follow up labs to solve the crime. After working through several provided mysteries, students will create their own characters and clues for the class to solve as they host a mystery of their own design. In addition to an interest in reading and writing mysteries, students must enjoy a bit of drama complete with costumes and accents.

### **DREAM HOME (4-8)**

#### **◆ Advanced**

Students will draw from literature, science, and their imaginations to design a dream home. Fieldtrips and guest speakers will provide students with design ideas. Students will build a scale model and do a presentation to share their ideas and the reasoning behind it.

### **THE ART OF DIPLOMACY (6-8)**

#### **◆ Advanced**

Learn to negotiate your way out of any situation, broker peace between nation states (or squabbling siblings!), and use words to create a better tomorrow. Explore treaties and agreements among countries throughout history and imagine the promises of the future.

### **IMAGINE, EXPLORE, CREATE (3-5)(4-8)**

#### **◆ Advanced**

Throughout the quarter students will work on a variety of projects that span the curriculum and incorporate multiple subjects. Additionally, students will be offered warm-up activities as time permits. These options include, but are not limited to logic/strategy games, engineering challenges, group communication tasks, and problem solving puzzles. Emphasis will be placed on high level thinking skills, creativity, problem solving, and persistence with tasks.



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## **OPTIONAL PRIMARY SCIENCE**

### **JUNIOR ENGINEERING (1-3)**

Did you ever think you could build so many things from Legos? Plan, predict and construct projects using these familiar building materials. Incorporate Legos to build simple machines that use gears, levers, ramps, and pulleys.

### **CREEPY CRAWLIES (1-3)**

Students investigate the mysteries behind our creepy, crawly, fascinating neighbors! We will explore the exciting world of entomology and discover creatures found around the world. Each student will research the habits and unique features of insects.

### **DIGGING DINOSAURS (1-3)**

Students put on archaeologist hats as they join a dinosaur research project. They will participate in the simulated excavation of dinosaur bones as they study the history and life cycle of various dinosaur species.

### **ADVANCED INQUIRY LAB (2-3)**

This course is for primary students who have completed all of the essential science classes. This is an opportunity to take a rigorous exploration with an upper grade science teacher! Students will complete two inquiry investigations; one in a topic of their choice and the other in an area of least exposure as determined by a pre-assessment.

### **JACK & THE BEANSTALK (1-3)**

This class offers more experimenting with plants. Make a terrarium, plant marigolds for moms, make a classroom compost container & experiment with worms. Each student will conduct an individual plant investigation to test a variable such as the effect of varying soil types, music, or different "nutritional supplements."



# ESSENTIAL INTERMEDIATE SCIENCE

These explorations provide an overview of all district curriculum objectives in grades 4-8. After taking all of these "essential" classes, (marked with an \*) an intermediate student will be prepared for the state science exam. The classes are designed to last one quarter. Every science exploration at the Magnet School will routinely use the science process skills of observation, prediction, hypothesis forming, data collection and analysis. Middle school classes will be appropriately rigorous in preparation for high school.

## **\*EARTHQUAKES (4-6)(6-8)**      *~ESSENTIAL SCIENCE~*

Explore the dynamic planet that we live on. Students will explore how earth processes change the face of our planet. We will see how movement within the earth's crust causes mountains to form, volcanoes to erupt, and earthquakes to occur. Students will explore the rock cycle and how it further affects earth's surface, using hands on activities and samples to bring long-term earth processes to life. **This class will be offered again in 2018/2019.**

## **\*STAR TREK (4-6)(6-8)**      *~ESSENTIAL SCIENCE~*

Experience the cosmos. Learn about the moon, the sun, and the solar system. What makes each planet unique? Could we visit or even live on any of them? What about comets, meteors, and asteroids? Think beyond the confines of what we can see - explore our place in the galaxy and the universe. **This class is offered in 16/17 and will be offered again in 2018/2019.**

## **\*WAVE RAVE (4-6)(6-8)**      *~ESSENTIAL SCIENCE~*

Come discover the world of light, sound, and color. Explore sound waves, seismic waves, and the waves of the electromagnetic spectrum. Catch the waves....see you there! **This class is offered in 16/17 and will be offered again in 2018/2019.**

## **\* TANGLED WEBS (4-6) (6-8)**      *~ESSENTIAL SCIENCE~*

Discover food chains and webs while creating biospheres in bottles and dissecting owl pellets. Learn how energy flows through an ecosystem and how ecosystems change over time. Could a forest fire be good for a moose? **This class will be offered again in 2018/2019.**



# FITNESS



## **BALLROOM DANCE! (5-8)**

This class, designed especially for our middle school students, will teach the basic moves and techniques for several popular ballroom dances.

The class will culminate in a formal and fancy ballroom event! This class will be taught by Dance Arts Academy.

## **\* HEALTHY START! (6-8)**

*~ESSENTIAL ~*

At some time during 6th, 7th or 8th grade, students must enroll in Healthy Start! This class will focus on health, wellness, and lifestyle and will cover such topics as self-concept, stress management, the digestive and respiratory systems, nutrition, communicable diseases and chemical awareness and dependency. Students will begin to understand the connections to what they do now and their long-term health!

## **DANCE THEATRE (4-6)**

This is a very popular class which gives children a greater self-confidence and enhances their stage performance. Incorporating elements of dance, acting, voice, and performance techniques, Musical Theatre students learn what it takes to become "Broadway bound"!!

## **ZUMBA! (4-6) (6-8)**

Zumba infuses Latin rhythms and easy to follow dance moves in this dynamic and exciting class. This aerobic dance will really get you moving. This class will be taught by Dance Arts Academy.

## **RACQUET GAMES (3-5)(6-8)**

Students will be taught the proper techniques and rules for badminton, pickle ball, tennis, ping-pong, cricket, and lacrosse.

## FITNESS

### **PRIMARY TAE KWON DO (1-3)**

\$15.00 fee

Midnight Sun Martial Arts Academy will teach this class. Participants will work toward the goal of earning their **yellow stripe** as they learn and practice self-defense techniques, health and physical fitness principles, Korean history and language and non to light contact sparring techniques using safety gear. The class fee of \$15 includes the manual, uniform rental, mouthpieces and white belt.

### **BEGINNING TAE KWON DO (4-8)**

\$15.00 fee

Midnight Sun Martial Arts Academy will teach this class. Participants will work toward the goal of earning their yellow belt as they learn and practice self-defense techniques, health and physical fitness principles, Korean history and language and non to light contact sparring techniques using safety gear. The class fee of \$15 includes the manual, uniform rental, mouthpieces and yellow belt.

### **YELLOW BELT TAE KWON DO (4-8)**

\$15.00 fee

Midnight Sun Martial Arts Academy will teach this class. Participants who have already earned their yellow belt will have an opportunity to continue what they've learned. The class fee of \$15 includes the manual, uniform rental, mouthpieces and yellow belt.

### **MOVING AND GROOVING! (1-3)**

Learn and move with modern dance, pre-jazz and ballet. Get your wiggles out, as you learn simple dance moves, with Dance Arts Academy. Take it more than once, different songs and dances each time.

### **HIP HOP! (4-6)(6-8)**

Learn to dance like a pro. Hip hop, funk and all of the latest dance moves performed by Poppers and Lockers today What a great way to get your exercise! This class will be taught by Dance Arts Academy. Take it more than once, different songs and dances each time.

### **AEROBICS! (3-5)(6-8)**

Get fit with a variety of aerobic exercises. Get up and get moving!

### **ALASKA SPORTS & REC (1-2)(3-5)(6-8)**

Get fit in Alaska! Activities include snowshoeing, orienteering, Alaska Native games, sledding, skiing, and other games. Students must bring their outdoor gear.

## ESSENTIAL INTERMEDIATE SCIENCE

### **\*WHAT GOES UP MUST COME DOWN! (7/8)**

~ESSENTIAL~

Unlock the mysteries behind Newton's laws of force and motion. Experiment with relationships among force, friction, mass, acceleration, and more. Find out just how cool gravity is. May the force be with you! **Offered every year. Open to 6<sup>th</sup> grade students with supporting test scores.**

### **\*HAIR TODAY GONE TOMORROW! (7/8)**

~ESSENTIAL~

Did you inherit that tongue roll and what's the probability of growing bald? Students will understand the role of genes in determining our traits. Learn microscope skills.

**Offered every year. Open to 6<sup>th</sup> grade students with supporting test scores.**

Essential Intermediate Science classes that are not offered this year, but will be offered again during the 2017/2018 school year:

\*SHOCKING EXPERIENCE (4-8)

\*FIZZY FORMULAS (4-8)

\*WEATHER DETECTIVES (4-8)

\*THE 6<sup>TH</sup> KINGDOM (4-8)

\*BLOOD & GUTS (4-8)

## OPTIONAL INTERMEDIATE SCIENCE

### **CHEMISTRY OF COOKING (6-8)**

Explore the science of food. Every time you follow or modify a recipe, you are experimenting with acids and bases, emulsions and suspensions, gels and foams. In your kitchen you denature proteins, crystallize compounds, react enzymes with substrates, and nurture desired microbial life while suppressing harmful bacteria and fungi. And unlike in a laboratory, you can eat your experiments to verify your hypotheses.

### **ADAPTATION SENSATION (4-6)**

Explore the variety of life! Look at dinosaur fossils, insect wings, and bird beaks –why are they the way they are? Why do some things go extinct while the others survive? Make a 'designer organism' – Where would it survive?

## **ESSENTIAL PRIMARY SOCIAL STUDIES**

After taking all four of these essential classes, your child will have completed the FNSBSD social studies curriculum objectives for grades 1-3 which is aligned with Alaska State Standards in Geography, Government and Citizenship, and History.

### **\*OUR TOWN GOVERNMENT AND POLITICS (1-3) ~ESSENTIAL~**

Students will create and construct a town complete with an elected mayor, town charter and laws, shopkeepers, banker, manufacturers, and other services. They will explore rules, laws, voting, and how individual actions affect the group and more.

### **\*AMERICAN EXPRESS (1-3) ~ESSENTIAL~**

Students will explore destinations, map out a route, read and create travel brochures, and get their passport stamped. This course will place particular emphasis on the culture and geography of our country's neighbors to the north and south!

### **\*TIME MACHINE...HISTORY OF FAIRBANKS (1-3) ~ESSENTIAL~**

Go back in time 100 years and spend a day in a Fairbanks classroom. Explore, identify and locate Alaska on the map and basic land formations. Learn to describe how Athabascans and early settlers contributions shaped the development of our community.

### **\*ME ON THE MAP! (GRADES 1-3) ~ESSENTIAL~**

Young students will explore geography through an atlas they create with information about themselves and their world as they see it. Geographic skills learned will be cardinal directions, measuring & scale. Topics covered will also include the 7 continents, the 4 hemispheres, the equator and prime meridian, the oceans and major seas.

## **OPTIONAL PRIMARY SOCIAL STUDIES**

### **PEOPLE WHO MADE A DIFFERENCE ( 1-3)**

This class focuses on people who influence our lives. Students enrich their appreciation of their own family culture and demonstrate respect for the diversity of other cultures. This also includes age appropriate reflections and discussions on current events.

## **FITNESS**



### **HOP, SKIP, JUMP! (1-2)**

This class is geared for the young student who needs to get the wiggles out with a combination of structured and unstructured play. Weather permitting; this activity time will alternate between inside and outside activities. Students must bring their outdoor gear!

### **PLAYGROUND GAMES (2-4)**

Get outside and get moving! This class will provide supervised unstructured playtime on the playground. Students will need to be prepared to go outside in all weather. Please note, this class will be graded as pass/fail.

### **READY, SET, GO! (3-5)**

This class is geared for the primary student in third through fifth grade. This class will encourage physical fitness, develop individual skills and team skills, and introduce a variety of activities and sports. Weather permitting; this activity time will alternate between inside and outside activities. Students must bring their outdoor gear!

### **SPORTS FACTS & ARENA (6-8)**

For the student who enjoys reading and sports. This course will explore sports teams and sport history in research as well as playing. The importance of physical fitness, health, nutrition, good sportsmanship, and working as a team will be stressed as students participate in a variety of sports & games. Half of class time will be time spent researching and writing about sports and the other half will be activity based.

### **SPORTS ARENA (6-8)**

For the young athlete who enjoys team sports, this course will emphasize basic skills development, which is essential to succeeding in sports. The importance of physical fitness, health, nutrition, good sportsmanship, and working as a team will be stressed as students participate in a variety of team sports & games. Weather permitting; students will take "the team" outside!

### **DISC SPORTS (3-5)(6-8)**

Learn how to throw a Frisbee, play disc golf, play Ultimate Frisbee, and keep score. Individual and team skills will be taught.



## MUSIC

All Band and Orchestra classes are **full year** courses. Please mark all 4 quarters on your exploration course worksheet.

### **STRING ORCHESTRA (4-8)**

**4 QTRS**

Students will learn to play or continue their studies on a traditional string orchestra instrument. They may choose violin, viola, cello, or double bass. Ensemble performances will be an integral part of this course.

### **STRIKE UP THE BAND (4-8)**

**4 QTRS**

Students will learn to play or continue their studies on a traditional concert band instrument from the woodwinds, brass, or percussion family. Ensemble performances will be an integral part of this course.

### **ADVANCED SYMPHONY (4-8)**

**QTRS REQUIRED (2,3,4)**

Advanced Band and Orchestra students will learn to play in a symphonic setting, which includes all the concert band and string orchestra instruments. After they have mastered their primary instrument these advanced players will have the opportunity to take on a secondary instrument. Ensemble performances will be an integral part of this course.



## ESSENTIAL INTERMEDIATE SOCIAL STUDIES

These explorations provide an overview of all district curriculum objectives in grades 4-8. After taking all of these "essential" classes, (marked with an \*) an intermediate student will have completed all of the objectives in the social studies curriculum which are aligned with the Alaska State Standards in Geography, Government and Citizenship and History.

### **\*MAP QUEST (4-6)(6-8)**

*~ESSENTIAL~*

Get your hands gooey! Create a relief map complete with topographical features. Careful, don't spill the paint! Student will study map and globe skills, and relate their own learning to research and discussions about current local and global events. They will apply skills such as interpret charts, graphs and tables, using longitude and latitude, time zones, continents, and countries. Using a variety of maps to include topographical political and regional maps demoting climates, landforms, resources, and cultural groups. This class will be offered again in 2018/2019.

### **\* WESTWARD BOUND! (4-6)(6-8)**

*~ESSENTIAL~*

Journey with Louis and Clark and head for Oregon on a wagon train. Spend a day in a one-room schoolhouse; meet Sitting Bull, Crazy Horse, and Geronimo. Travel the Chilkoot Trail and, finally, remember the Alamo! This course will provide an overview of people, issues, and events that have shaped our United States history including Alaska, from post revolutionary America to the end of the 19<sup>th</sup> century. This class will be offered again in 2018/2019.

### **\*COLONIAL VILLAGE; Early Life in America (4-6)(6-8)**

*~ESSENTIAL~*

Learn early American history at the time the colonists settled into our country. Learn what life was like in the 1700's. This class will be offered again in 2018/2019.

Do you want to make crafts from Colonial times? Check out our **Colonial Crafts** class in the Fine Arts section!

### **\*TWENTIETH CENTURY ROCKS (4-6)(6-8)**

*~ESSENTIAL~*

Peace, love, and rock and roll! Come debate the space program, Vietnam War, and women's right's. Learn about the Holocaust; participate in the Montgomery Bus Boycott. From post revolutionary America to the end of the 19<sup>th</sup> century, this course will provide an overview of people, issues, and events that have shaped our United States history including Alaska.

## ESSENTIAL INTERMEDIATE SOCIAL STUDIES

### **\*NORTH TO ALASKA (4-6)(6-8)**

*~Essential~*

Learn more about the 49<sup>th</sup> state and the role it has played in United States history. Learn about Alaska through the five themes of geography, historical figures that helped shape Alaska, indigenous people of Alaska, and Alaska's government and political history. **This class will be offered again in 2018/2019.**

### **\*SMALL WORLD...Advanced Geography (7-8)**

*~Essential~*

Students will examine some of the world's major modern cultures as they learn about the location, physical features, economy, lifestyles, food, religious practices, and values of each. Become a global citizen as you discover which culture travels a mile deep into the earth and where people who eat raw food live the longest. **Offered every year. Open to 6<sup>th</sup> grade students with supporting test scores.**

### **\*WE THE PEOPLE - CIVICS (7-8)**

*~Essential~*

Explore the beliefs that are the basis for our legal and political institutions in America. Study current events and demonstrate community and political involvement. Be a more informed citizen! Included in this class will be a review of eighteenth century American history. **Offered every year. Open to 6<sup>th</sup> grade students with supporting test scores.**

Essential Intermediate Social Studies classes that are not offered this year, but will be offered again during the 2017/2018 school year:

**\* SHADES OF BLUE AND GREY ...Civil War (4-8)**

**\* TREASURE ISLAND...AGE OF EXPLORATION (4-8)**

**\* RTE 66 ...US GEOGRAPHY (4-8)**

**\* DO YOU DIG MUMMIES...ANCIENT CIVILIZATIONS (4-8)**



### **STUDY SKILLS (7-8)**

Are you ready for all your classes? Do you want to be more prepared for high school? Take study skills to learn study tips, organizational skills or just have more time to work on projects. Listening/note taking, review games, test taking skills, planner and calendar use may be included.



## MUSIC

### **SHAKE, RATTLE, AND ROLL (1-3)**

Listen, watch, and feel. Students will play a variety of rhythm instruments as they learn general music basics! They will learn to play a steady beat, learn to follow a musical "score", and play at the appropriate time.

### **YOU'VE GOT THE BEAT (1-3)**

Drum up the beat in this class offering a rhythm experience which will introduce instruments and ensemble performances. Some music notation will be taught. Emphasis will be placed on creating rhythms using various instruments. No music experience is necessary, only the desire to experience music, work together and have fun.

### **RECORDERS RHYTHM BAND (3-5)**

Drum up the beat in this class offering a rhythm experience that will introduce percussion instruments and ensemble performances. Some music notation will be taught. Students will learn recorders, drumming and ukuleles. No music experience is necessary, only the desire to experience music, work together and have fun.

### **ELECTRIC KEYS (4-8) OFFERED QUARTERS 2,3,4**

In this course the student will learn to play a keyboard instrument. Designed for students with no previous experience, the basic fundamentals of music and playing technique will be introduced. This class will be offered 3 quarters in a row and students may register for any or all of the 3 quarters.

### **HAND BELLS (4-8)**

Students will learn to play songs on hand bells in this new class. Basic musical skills will be taught. No music experience is necessary, only the desire to learn, work with others, and have fun. Student who have taken this class before are encouraged to take it again!

### **RAISE YOUR VOICES CHOIR (1-3) (4-8)**

Find the joy in singing! In this course students will develop their natural singing voices. Emphasis will be placed on posture, breathing, and producing beautiful music!

## FINE ARTS

### **CAST OFF (4-8)**

\$10.00 fee

Boys and girls learn basic knitting and/or crochet stitches to create a hat or scarf.

### **BEHIND THE CURTAIN (6-8)**

\$10.00 fee

Ever wonder how a musical is created? Behind the Curtain explores the world of musical theater. Learn the ins and outs of putting on a full musical production. Students will perform on stage or work behind stage during the performance. Students will learn about acting, singing, voice projection, stage presence, and blocking on stage. Behind the scenes they will learn about the technical theater side of stage production to include the basics of lighting, sound, scenic, and costume design. Students will walk away with a better understanding of all the elements that work together to create a show. This class will be team taught.

### **CHILDREN'S THEATER (3-5)**

Students will perform a short play. Possible works include Just So stories, Aesop's Fables, Grimm's Fairy tales, and other children's classics. The production may be either in the form of puppet theatre or an informal stage presentation. Class goals are to improve students' reading, writing, and verbal skills and to have fun acting out the stories.

### **CARTOONING (5-8)**

\$10.00 fee

Learn to draw captivating one panel cartoons, sequential cartoon strips, and caricatures. Study techniques from master cartoonists. Learn to organize the essential elements of a story, use cartoons to convey your ideas, and develop your drawing and writing techniques.

### **PROJECT CLAY (4-6)(6-8)**

\$15.00 fee

Students will use clay tools to create projects including pinch pots, relief figures, and more!

### **ARCHITECTURAL APPRENTICE (4-6)(6-8)**

\$10.00 fee

Students will work on the basic components of architecture. This includes working with the SketchUp Program, blueprints, and building models. Students will also be required to complete tasks from the design to construction phases and test their construction via challenges.

### **TECHNIQUES IN ART (4-8)**

\$10.00 fee

Draw, use chalk, pastels, watercolor, acrylics and more. Quality lessons that include famous artists and techniques that will develop art skills useful in many classes!

## OPTIONAL INTERMEDIATE SOCIAL STUDIES

### **MINI SOCIETY (5-8)**

◆ **Advanced**

\$15.00 fee

Learn how a corporation is established as you produce, advertise, market, and sell your product for a profit. Meanwhile, learn economic principals such as scarcity, supply and demand, and the characteristics of a free market economy. Be an entrepreneur and form your own company!

### **CAREER CHALLENGE (6-8)**

In this exploration, we will look closely at future career choices. We will take interest inventories, explore multiple intelligences, and talk with a variety of guest speakers from numerous occupations. The main focus will be on the Alaska career information system. We will be creating portfolios using AKCIS and taking state required career readiness tests on the WIN (Worldwide Interactive Network) Website. Explore your future now!



## MATHEMATICS

### **MATH FOR ME! (1-3)**

Learn to count money, measure, play math games, and look at the ways math is used in every day life. Using creative play, students will strengthen their math skills in fun and interesting opportunities.

### **NEW!! TI83/84 CALCULATOR MASTERS (6-8)**

This class is for any student who desires to master the TI83/84 calculator! Learn skills that will help you in every math class you will take through high school! Improve your abilities in the world of math without the pressure of keeping up with the class. With this exploration, you will be at the head of the class!

### **MATH COUNTS (6-8)**

◆ **Advanced**

This advanced exploration is for strong math students. Students will apply math skills to complex math problems. Middle school students may have the opportunity to participate in the Math Counts competition.

# LITERACY

## **IMAGINATION STATION (1-2)**

Play is powerful! Develop language and social skills through creative hands-on play. Building materials, puppets, music, and multi-purpose props will be used to foster cooperative learning. The class will help enhance math and language arts achievement using literature as a springboard.

## **FRACTURED FAIRYTALES (1-3)**

Explore traditional fairytales, retell them, rewrite them, and act them out! Have fun while improving speaking, writing, and reading skills through technology.

## **THE WRITE STUFF *PRINT* & **TYPING** (2-3)**

This class will split its time between learning handwriting and keyboarding skills.. Practice handwriting with a variety of writing and artistic projects. This class will help develop the fine motor skills needed for handwriting with a fun emphasis on presentation. Work on early writing skills. Learn to type using the home row.

## **POINT-COUNTERPOINT... (4-6)**

**Debate/Mock Trial ...** Make your point in a big way as you get to argue to everything from school lunch to the legal voting age. You will learn to use research for rational and sound arguments in the context of a formal debate. Will you be a prosecuting attorney or a jury member?



# FINE ARTS

## **ANIMAL ART (1-3)**

\$10.00 fee

Students interested in animals will have the opportunity to research, draw, paint, model, and present animals in their habitats as a final project as they explore animal classifications, habitats, life spans, and body features.

## **CREATIVE CRAFTS (1-3)**

\$10.00 fee

Try a little bit of everything, and learn a mix of various artistic mediums. Papier-mâché, origami, batik, and bead making are just some of the possibilities!

## **ASTOUNDING ARTISTS (1-3)**

\$10.00 fee

Draw, use chalk, pastels, watercolor, acrylics, and more. Quality lessons that include famous artists and techniques that will develop art skills useful in many classes!

## **PRIMARY COLORS (1-3)**

\$10.00 fee

Young artists will experiment with watercolors, tempera paints, finger paints, and other mediums to bring out their natural colors! Learn brush techniques and work with the color wheel to create beautiful works of art worthy to be framed.

## **DRAWING 101 (4-6)(6-8)**

\$10.00 fee

Everyone can draw! Learn how to incorporate linear perspective and accurate proportions into your artwork. Hone your drawing skills by practicing keen observation. Experiment with pencil, charcoal, and ink techniques. This class will help all students successfully find their inner artist. Keeping a sketchbook all quarter will be required for class participants.

## **COLONIAL CRAFTS (4-8)**

\$10.00 fee

Candle making, bread baking, metal punching, spinning, wool felting, and more! Make crafts like they did in the Colonial days. Take part in a colonial village to show off your handiwork. For a complete experience combine this class with the social studies class, Colonial Village.

## **NEW!! THEATRE GAMES (1-3) (4-6)**

Come actors! Come dramatists! Come children of all ages! Let's act! Let's play! Let's do theater games! This class will focus on improvisations and miming techniques. We won't go on stage because the class will be our stage. So, if you are creative, have lots of imagination, and like to be goofy, this class is for you (even if you have stage fright!!).

## TECHNOLOGY

### **SPECIAL FX (6-8)**

We will learn about special effects in the movie and advertising industries. Students will create their own special effects projects in digital media.

### **BASIC ROBOTICS (4-8)**

Students will program and control actual robots that they build themselves using specially created software and Lego building materials.

### **ROBOTICS II (5-8)**

Pick up where you left off with Basic as you design more complicated projects. (Prerequisite is Basic Robotics)

### **GAMES DESIGN (6-8) SEMESTER BASED COURSE \*2 QTRS\***

This S.T.E.M. based program lets students explore the makings of successful games and the physics involved in these programs. They gradually expand onward to programming several different games using current coding rules and programs and finish the course by creating their own game as part of a design team. This class is intensive; students must be capable of working with a team of their peers. **This is a semester-based course. Register for quarters 1 & 2 or quarters 3 & 4.**

### **A YEAR IN PICTURES (6-8)**

Students will use digital photography to document life at Barnette. Learn how to operate a digital camera and work with digital photos on a computer. Learn the elements of design and layout. Take photos for and work on the Barnette Yearbook.



## LITERACY

### **THE DARING CLASS FOR GIRLS! (4-8) \$15.00 fee**

Whether you're a girly-girl, an athlete, a brainiac, or a little bit of everything, this class is designed for you! *The Daring Class for Girls* is the can-do, how-to manual for enthusiastic, unfettered adventure. This hands-on literacy class cheers girls on to be curious and brave, and above all, to have fun!

### **THE DANGEROUS CLASS FOR BOYS! (4-8) \$15.00 fee**

Learn it, build it, make it, explore it... from the five knots to the seven wonders of the world that includes the most complicated machine ever built. This hands-on literacy class is for boys only. A new project everyday designed with boys in mind!

### **THE BROTHERS GRIMM & HARRY POTTER (6-8)**

Archetypes then and now. What lurks between the pages of stories by the Grimm brothers and J.K. Rowling? The good, the bad, and the helpful! Study these characters and find out what makes them universal and virtually unchanged throughout the centuries.

### **IT'S UP FOR DEBATE! (4-6)**

Students will learn to express their opinions assertively in a respectful manner on a relevant issue or topic. Work cooperatively, brainstorm ideas, develop vocabulary, and read to support an opinion. Students will become more proficient in speaking, researching, reading, and writing skills. Debates promote reasoning as well as communication skills.

### **TEACHER'S ASSISTANT (TA) (7/8)**

Does your student want to explore being a teacher's aid? This role includes assisting with younger students, setting up classroom projects or running errands for the teacher, or possibly even working in the Barnette office. If this sounds like a lesson in responsibility you would like to explore, be sure to check the box at the bottom of your **Exploration Course Worksheet** and we will contact the 7/8<sup>th</sup> grade student as opportunities develop!

## **LANGUAGE & CULTURE**

Spanish classes may require more than one quarter. Please note how many quarters each class requires and mark all required quarters on your exploration course worksheet.

### **BEGINNING SPANISH CULTURE (2-3) \*2 QTRS\* (A-B)**

Students will be introduced to the language with extensive vocabulary and cultural facts through songs, games, and art activities.

### **CONTINUING SPANISH CULTURE (2-3) \*4 QTRS\* (A-D)**

Student placement in continuing Spanish classes will be determined by a teacher assessment. This course is a continuation of the curriculum presented in Beginning Spanish. Students will be able to construct sentences, dialogues, and short passages in Spanish. Cultural exposure will enhance the students' knowledge and appreciation of the Spanish culture.

### **GUTEN TAG – INTRO TO GERMAN CULTURE (2-4) (4-8) 1 QTR**

Students will learn about various German speaking regions of the world through songs, games, and role-playing appropriate to their age and experience. Enrichment activities include exploration of culture and cuisine of countries where the language is spoken. Activities will integrate listening to and speaking the language at an introductory level.

### **INTRO TO SPANISH (4-8) \*4 QTRS\***

In this year-long class, students will learn to communicate comfortably and naturally in Spanish at a level appropriate for their age and experience. Learning will be reinforced through role-playing, songs, and games. Students will learn simple phrases through listening, speaking, reading, and writing activities. Students will also participate in festivals, crafts, and cuisines of Spanish speaking countries

### **INTERMEDIATE & ADVANCED SPANISH (4-8) \*4 QTRS\***

Student placement in continuing Spanish classes will be determined by a teacher assessment. This course is a continuation of the curriculum presented in Intro to Spanish; however, students will find an increased focus on writing. Geography, Art, Science, and Math are integrated into the curriculum.

## **TECHNOLOGY**

### **JUNIOR ENGINEERING (1)**

Did you ever think you could build so many things from Legos? Plan, predict, and construct projects using these familiar building materials. Incorporate Legos to build simple machines that use gears, levers, ramps, and pulleys.

### **TECH STUDIO I (1-3)**

Students will learn basic computer skills, including keyboarding, how to access Barnette servers, and navigate web browsers. Students will locate prime educational sites. Students will learn current programs such as Garageband, Imovie, and PowerPoint. This is a great basics and beyond class to develop computer savvy.

### **WEDIDAMOVIE (5-8)**

In WedidaMovie, students will learn all aspects of producing their own piece – from writing the script, creating the storyboard, rehearsing, videoing, and editing. Each student will gain experience using video equipment and different computer applications, such as iMovie, Garage Band, and iDVD. An emphasis will be placed on collaborating on one project. Projects may be entered in a state competition.

### **TECH STUDIO II (2-3)(4-6)**

Students will learn basic computer skills, including keyboarding, word processing, how to access Barnette servers, and navigate web browsers. Students will locate prime educational sites and learn printing. Students will learn current programs such as Garageband, iMovie, Excel and PowerPoint at grade appropriate levels.

### **STOP MOTION ANIMATION (5-8)**

Learn about stop motion animation and make your own stop motion video for the Ipad.

### **WEB DESIGN (5-8)**

Students will learn to design a personal web page and be introduced to Web Design software.

