

# Janitell Junior High School

*Course Description Book*  
*2021-2022*



Go Jags!

# ***JANITELL JUNIOR HIGH SCHOOL***

7635 Fountain Mesa Road  
Fountain, CO 80817  
(719) 391-3295

## **ADMINISTRATIVE AND SUPPORT STAFF**

<b>Principal</b>	Sean McCune	<b>Main Office Secretary</b>	Shana Johnson
<b>Assistant Principal</b>	Joshua Tutje	<b>Attendance Secretary</b>	Cyndee Kruggel
<b>Dean of Students</b>	Susan Mendonca		

<b>Counselors</b>		<b>School Psychologist</b>	Cara Woundy
Erin Murphy (Students A-K)		<b>School Social Worker</b>	Meagan Cohee
Kari-lynn Wilson (Students L-Z)			

## **SPORTS**

<b>FALL SPORTS</b>	<b>WINTER SPORTS</b>	<b>SPRING SPORTS</b>
Football	Basketball (Girls)	Softball
Cross Country	Basketball (Boys)	Track (Boys)
Volleyball (Girls)	Wrestling	Track (Girls)
Cheerleading - yearlong		

## ***Course Description Book***

### **REGISTRATION PROCEDURE**

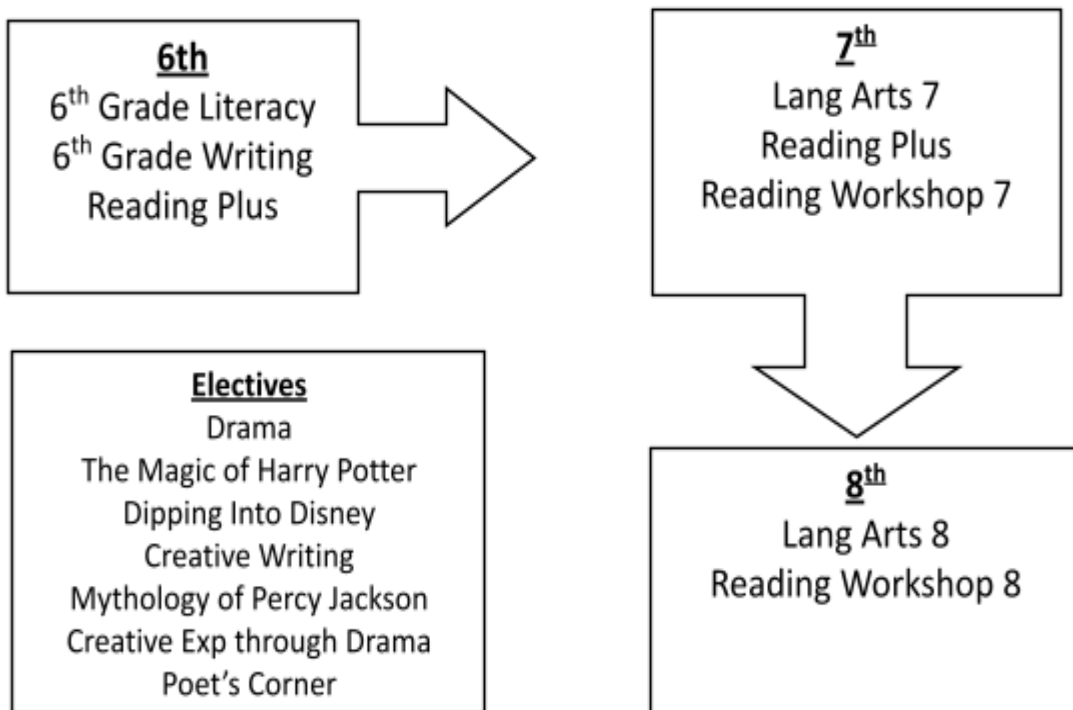
1. Each student will have access to a course description book online for family consideration.
2. Each student will have the opportunity to request elective classes based on course offerings each year.
3. Music and math recommendations will come from the previous year's teacher. Please contact them if you have any questions about your placement.
4. The school will develop a master schedule based upon the pre-registration requests by students. Students **must** adhere to the procedure and dates for all scheduling procedures. Students may choose from a broad range of course offerings at Janitell Junior High School

### **COUNSELING CENTER INFORMATION**

Counseling Center services include student scheduling, new student registration, career and vocational counseling, scholarship information, as well as personal and social counseling.



## LANGUAGE ARTS DEPARTMENT



### REQUIRED COURSES

#### 6<sup>th</sup> GRADE LITERACY

0450A/B

*Year Long*

*6<sup>th</sup>*

In sixth grade language arts we will delve into critical thinking skills and learn how to analyze texts for a deeper understanding. This will help to further enhance your reading, writing and language skills. We will use various fiction & nonfiction texts and explore the central themes of Childhood, Animals, Technology & Imagination.

#### LANG ARTS 7

0405A/B

*Year Long*

*7<sup>th</sup>*

In seventh grade language arts, we'll sharpen our reading, writing, speaking, and listening skills using various fiction and nonfiction texts. The heart of our curriculum involves using Depth and Complexity icons to think more critically.

## **LANG ARTS 8**

**0410A/B**

***Year Long*** ***8th***

In 8th grade language arts we will explore four units: Human Intelligence, Rites of Passage, What Matters, and The Holocaust. Each area of study will help you enhance your reading, writing, speaking, and listening skills.

## **INTERVENTION CLASSES**

### **6<sup>th</sup> GRADE WRITING**

**0440A/B**

***Year Long*** ***6th***

The 6th grade writing class is an intervention class for those students that need a little more help on their writing skills. The class utilizes the ECAW writing curriculum which emphasizes small group instruction, skill based writing topics, and is supplemented with Daily Language Instruction (DLI) for students needing grammatical help. During small groups, students are able to pick their writing topics to help engage their interest while the teacher provides the writing target skill.

### **READING PLUS**

**1638A/B**

***Year Long or Semester*** ***6th/7th***

Reading Plus is a personalized online program that helps students develop skills they need to be confident, capable readers. Fluency & comprehension are the focus of this course.

### **READING WORKSHOP 7**

**0415A/B**

***Year Long*** ***7th***

Reading support for special education students that read significantly below grade level in both fluency and comprehension.

### **READING WORKSHOP 8**

**0416A/B**

***Year Long*** ***8th***

Reading support for special education students that read significantly below grade level in both fluency and comprehension.

## **ELECTIVE COURSES**

### **DRAMA**

**1409**

***Semester*** ***6th/7th/8th***

Drama is an all grades class where we will not only study the art of acting, but will also develop the skills needed to perform on our own! Be warned, this class will challenge your stage fright and put you at the center of attention! If you enjoy movies or Broadway then this is the place for you to test out what it takes to be an actor!

### **THE MAGIC OF HARRY POTTER**

**1541**

***Semester*** ***6th/7th/8th***

In this elective, we will explore the magical world of Harry Potter through J.K. Rowling's first book, Harry Potter and the Sorcerer's Stone. This class is perfect for people beginning their Harry Potter journey, and for the enthusiastic Harry Potter fan alike! We will engage in a variety of activities to help bring reading and Rowling's amazing fantasy world to life.

## **DIPPING INTO DISNEY**

**1544**

**Semester**

**6th/7th/8th**

Dipping into Disney is a film study class. We will look at Disney movies using a variety of viewpoints with the intention of broadening how we think about movies. Even if you consider yourself a Disney movie buff, this class will help you see movies in a whole new light!

## **CREATIVE WRITING**

**0430**

**Semester**

**6th/7th/8th**

Creative Writing is an all grades class where we analyze and create various genres of writing. During the course we will read example texts, analyze the author's craft, and then attempt to write our own stories in a similar format. Be ready to read exciting short stories and compile a portfolio of you writing to keep for years to come!

## **MYTHOLOGY OF PERCY JACKSON**

**1542**

**Semester**

**7th/8th**

The Mythology of Percy Jackson combines the study of classical Greek mythology with the imaginative world of the novel The Lightning Thief. Whether you've read the book or not, this class is perfect for anyone who loves a good adventure.

## **CREATIVE EXP THROUGH DRAMA**

**1425**

**Semester**

**7th/8th**

In Reader's Theater we will practice reading skills like fluency, expression, vocabulary, and comprehension by reading drama that is engaging and entertaining. You know what they say, a play a day keeps boredom away!

## **POET'S CORNER**

**1514**

**Semester**

**7th/8th**

Roses are red.

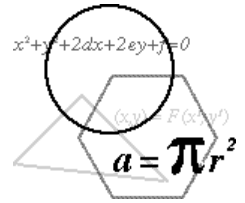
Violets are blue.

Join Poet's Corner.

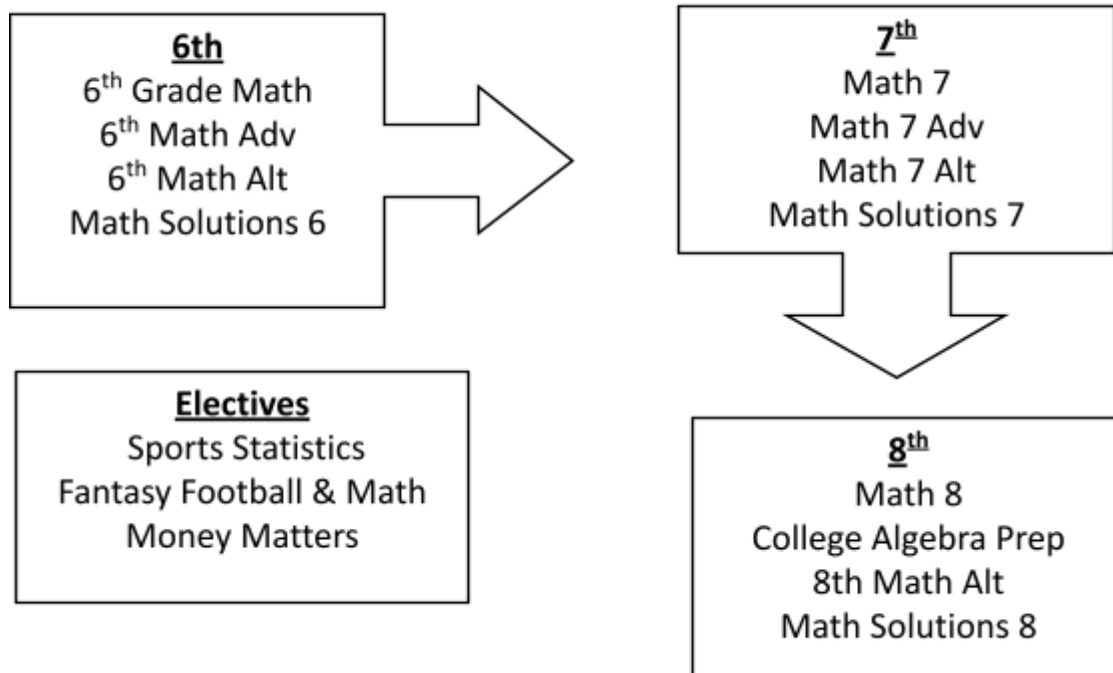
It's fun.

Enroll in Poet's Corner, where you will learn to write WAY better poems than that one! Come and study the greats who inspired the rap artists and songwriters of today.

# MATHEMATICS DEPARTMENT



NOTE: Students are placed into their math classes based on teacher recommendations



## REQUIRED COURSES

### 6<sup>th</sup> GRADE MATH

0630A/B

*Year Long*

*6th*

This course is an on grade-level math class. The course will cover 6th grade content to include; Positive Rational Numbers, Integers, Numeric and Algebraic Expressions, Represent and Solve Equations and Inequalities, Ratio, Rate, Percentages, Area, Volume, and Data Interpretation.

### 6<sup>th</sup> MATH ADV

0633A/B

*Year Long*

*6th*

This course covers the same materials as Math 7 class, and is for students who have been placed in Advanced Math by 5th grade teacher recommendations, and/or district and state standardized tests. Content includes Integer Operations, Proportional Reasoning, Percents, Expressions, and Solving Multi-step Equations and Inequalities, Mean, Median, and Mode, and Probabilities. Students must be proficient at basic math computations.

**6<sup>th</sup> MATH ALT****0634A/B*****Year Long******6<sup>th</sup>***

This course follows a differentiated 6th grade curriculum with additional supports to provide catch-up opportunities for skills that may have previously been missed. The focus is on gaining confidence in math. Content includes decimal computation, algebraic processes and thinking, problem solving, percents & ratios.

**MATH 7****0601A/B*****Year Long******7<sup>th</sup>***

This class is a grade-level math course. Content includes integer operations, proportional reasoning, percents, expressions, and solving multi-step equations and inequalities. Mean, median, and mode. Probabilities and geometry. Students in this class are proficient at basic math.

**7<sup>th</sup> MATH ADV****0607A/B*****Year Long******7<sup>th</sup>***

This class covers the same materials as the Math 8 class and is for students who have been placed in an advanced math class previously. Content includes solving multi-step equations, proportional reasoning, graphing in slope-intercept form, functions, Pythagorean theorem, angles, and Transformations. Students in this class are proficient at basic operations such as times tables, graphing on a coordinate plane, and integer operations.

**7<sup>th</sup> MATH ALT****0603AA/AB*****Year Long******7<sup>th</sup>***

This course follows a differentiated 7th grade curriculum with additional supports to provide catch-up opportunities for skills that may have previously been missed. The focus is on gaining confidence in math. Content includes integer operations, proportional reasoning, percents, expressions, and solving multi-step equations and inequalities. Mean, median, and mode. Probabilities and geometry.

**MATH 8****0610A/B*****Year Long******8<sup>th</sup>***

This class is the grade-level math course. Content includes solving multi-step equations, proportional reasoning, graphing in slope-intercept form, functions, Pythagorean theorem, angles, and Transformations. Students in this class should be proficient in integer operations and graphing on a coordinate plane.

**COLLEGE ALGEBRA PREP****0613A/B*****Year Long******8<sup>th</sup>***

This course covers the same material as the 9th grade Algebra I course. Content includes simplifying expressions, solving 1- and 2-variable equations, proportional reasoning, graphing, scatterplots, solving and graphing inequalities, systems of equations and inequalities, forms of linear equations, functions, radical equations, exponents and exponential functions, factoring and solving quadratics, probability, and basic

trigonometry. Completion of this course prepares students to take Algebra II or Honors Algebra II in 9th grade.

### **8<sup>th</sup> MATH ALT**

**0612AA/AB**

***Year Long***

***8th***

This course follows a differentiated 8th grade curriculum with additional supports to provide catch-up opportunities for skills that may have previously been missed. The focus is on gaining confidence in math and preparation for high school Algebra. Content includes solving multi-step equations, graphing in slope-intercept form, functions, Pythagorean Theorem, angles, and transformations.

### **INTERVENTION CLASSES**

#### **MATH SOLUTIONS 6**

**1263**

***Semester***

***6th***

This class is not an additional math class. It is designed for students who struggle with math and need a little extra help. In this class we preview math content that will be covered in the upcoming math classes, review content for better understanding, complete homework assignments for math class, and practice basic skills such as times tables and integer operations. Content is sometimes included in games to make learning fun.

#### **MATH SOLUTIONS 7**

**1264**

***Semester or Year Long***

***7th***

This class is not an additional math class. It is designed for students who struggle with math and need a little extra help. In this class we preview math content that will be covered in the upcoming math classes, review content for better understanding, complete homework assignments for math class, and practice basic skills such as times tables and integer operations. Content is sometimes included in games to make learning fun.

#### **MATH SOLUTIONS 8**

**1265**

***Semester or Year Long***

***8th***

This class is not an additional math class. It is designed for students who struggle with math and need a little extra help. In this class we preview math content that will be covered in the upcoming math classes, review content for better understanding, complete homework assignments for math class, and practice basic skills such as times tables and integer operations. Content is sometimes included in games to make learning fun.

## **ELECTIVE COURSES**

### **SPORTS STATISTICS**

**1610**

***Semester***

***6th/7th/8th***

In sports statistics we look at data/information to help decide and pick players on their ability to score points for a student's individual teams. We also explore the role of data and information in different sports

### **MONEY MATTERS**

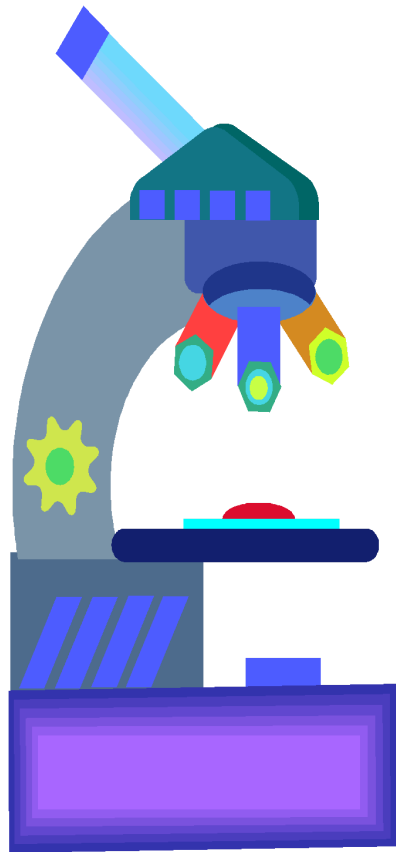
**1583**

***Semester***

***6th/7th/8th***

This course covers the basic personal financial needs of most individuals. Content includes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns.

# SCIENCE DEPARTMENT



**6<sup>th</sup>**  
6<sup>th</sup> Grade Science

**7<sup>th</sup>**  
Science 7

**8<sup>th</sup>**  
Science 8

**ELECTIVES**  
Who Am I?  
Science Challenge  
Science World  
STEM

## REQUIRED COURSES

### 6<sup>th</sup> GRADE SCIENCE

1040A/B

*Year Long*

*6<sup>th</sup>*

General Science - A combination of physical science, earth and space science, and life science.

### SCIENCE 7

1005A/B

*Year Long*

*7<sup>th</sup>*

General Science - A combination of physical science, earth and space science, and life science.

### SCIENCE 8

1010A/B

*Year Long*

*8<sup>th</sup>*

General Science - A combination of physical science, earth and space science, and life science.

## **ELECTIVE COURSES**

### **WHO AM I?**

**1523**

***Semester***

***6th***

Trace your family's bloodline throughout generations to discover more about what makes you uniquely you.

### **SCIENCE CHALLENGE**

**1516**

***Semester***

***6th/7th/8th***

Investigative science experiments! You're given a question and materials and you and your team get to decide how to answer the question, using the scientific method and inquiry skills.

### **SCIENCE WORLD**

**1527**

***Semester***

***6th***

Science Current Events: Read about and discuss the current events being experienced around the world in the field of science.

### **STEM**

**1335**

***Semester***

***7th/8th***

Where crafts collide with real-world situations. In STEAM you will be using a combination of science, technology, engineering, art, and math skills to build, develop, and create crafty projects with a real-world purpose.

# SOCIAL STUDIES DEPARTMENT

**6<sup>th</sup>**  
6<sup>th</sup> Grade Social Studies

**7<sup>th</sup>**  
Geography 7

**8<sup>th</sup>**  
US History 8

## **ELECTIVES**

Wonders of the World  
Greek Gods & Goddesses  
World Travels & Cultures  
Speech & Debate  
Colorado History  
Career Exploration



## **REQUIRED COURSES**

### **6<sup>th</sup> GRADE SOCIAL STUDIES**

**1130A/B**

**Year Long** **6<sup>th</sup>**

In Social Studies we cover every topic: economics, government, history, and geography. We start the year covering map skills to ensure students know how to read and use a map. From there we cover the geography and the people of the western hemisphere.

### **GEOGRAPHY 7**

**1105A/B**

**Year Long** **7<sup>th</sup>**

Students will learn about important topics and skills related to geography skills, the 5 Themes of Geography, culture, population and economics and government. Students will also study major countries and continents in the Eastern Hemisphere. Students will study the history, economics, culture and geography of Africa, Southwest Asia, India, China, Japan and Korea, Europe and Australia. Students will learn place location and will use reading and writing skills.

## **US HISTORY 8**

**1110A/B**

***Year Long***

***8th***

Students enrolled in the 8th grade U.S. History class will explore the birth, growth, and development of America with a focus on people, geography, history, government, and economy. Starting with our first explorers, American Revolution, founding fathers, our Constitution, and ending with the Civil War. Throughout the course, students will be challenged to develop their social studies skills, critical thinking skills, and geography skills.

## **ELECTIVE COURSES**

### **WONDERS OF THE WORLD**

**1545**

***Semester***

***6th***

In this class, we learn about the seven old and seven new wonders of the world. We watch videos, do projects, and participate in engaging activities, while learning about culture, travel, and history. An example project: Investigating an Egyptian Mystery

In this project, students are detectives attempting to solve an ancient Egyptian mystery that has yet to be solved. The students have to provide a slideshow with evidence and a case report. The students are trying to convince the courtroom (the rest of the class) of what they believe is the solution of this Egyptian mystery.

### **GREEK GODS & GODDESSES**

**1524**

***Semester***

***6th***

Delve into an interesting part of human history as we study the ancient Greek gods and goddesses through the use of 21st Century Technology Standards. The class will research the different Greek gods and the different myths while making relevant connections with their own lives.

### **WORLD TRAVELS & CULTURES**

**1150**

***Semester***

***6th/7th/8th***

In this class we travel to different countries throughout the world. We discuss differences in culture, traditions, and history. As we progress through the class students create a travelogue for the country we cover and a country of their choosing.

### **SPEECH & DEBATE**

**1615**

***Semester***

***7th/8th***

The purpose of Janitell speech and debate is to build self-confidence and oral competency by developing and practicing fundamental public speaking skills. Students will learn about all aspects of public speaking and debate. With the help of their teacher, students will prepare several oral presentations. These presentations will then be performed in class and students will be evaluated according to Podium Points for effective speaking. Students will receive warm and cool feedback. Students will also learn skills of debate. Focus will be placed on proper research methods in

preparation for oral presentations, debates, and mock trials. Finally, students will learn about the American system of government and debate issues related to the Bill of Rights.

## **COLORADO HISTORY**

**1401**

***Semester*** ***7th/8th***

Students study the geography, history and people of Colorado through maps, stories and projects.

## **CAREER EXPLORATION**

**0315**

***Semester*** ***7th/8th***

Career Exploration is a course that helps students identify their skills and interests while also providing direction towards possible career choices within the sixteen career clusters. Students will explore the types and cost of education and training needed for various career paths.

## **STRENGTH THROUGH CHARACTER**

**1420**

***Semester*** ***6th***

Strength Through Character is a class where you learn to take being a student to a whole new level: Level Learner. We learn how to make S.M.A.R.T. Goals and wise choices not just in our classes but personal lives as well.

# ART DEPARTMENT



## **6<sup>th</sup> ART**

**0210**

**Semester 6<sup>th</sup>**

Not sure if art is for you? In this course, you will get an overall introduction to Art. We will cover: Art Elements, Principles of Design, Color theory, 2- D Drawing techniques, Watercolor and painting techniques, and we will end the course with a 3-D unit which is a Clay introduction. This class is a great way to get introduced to the many different ways to create art.

## **2D ART**

**1595**

**Semester 7<sup>th</sup>**

In this course you will dive into the world of 2 dimensional art. We will explore Op art, Impressionism, Pointillism, and Cubism in the fundamentals of drawing. As well as drawing from life like Still life and portrait drawing. We explore and experiment with color theory, watercolor and painting techniques and silhouette art. If time, we will do an introduction to printmaking. Beginner? Expert? That's ok--all drawing levels are welcome!

## **3D ART SCULPTURE**

**1595**

**Semester 8<sup>th</sup>**

Explore the challenges and joys of working 3 dimensionally! In this course you will work with 3 dimensional materials like wire, paper, and clay. We will make wire sculptures, Origami, Paper Sculptures, mobiles and about 4 clay projects. Our clay projects are built to last a lifetime. We use kiln fired clay to create boxes, cups and bowls and much more that can actually be used. You have the opportunity to glaze your pottery, that means it becomes food safe! Let your imagination be the limit in this 3D art class.

# MUSIC DEPARTMENT

NOTE: Students are placed into their music classes based on teacher recommendations. 7<sup>th</sup> and 8<sup>th</sup> grade students are always welcome to join instrumental music classes, but may be placed in predominantly 6<sup>th</sup> grade classes.

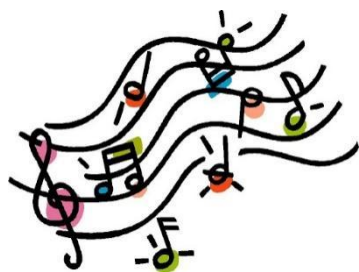
## 6th Grade

Beginning Choir

6<sup>th</sup> Woods/Percussion

6<sup>th</sup> Brass

Beginning Orchestra



## 7th Grade

Girls Choir

Boys Choir

Select Choir

6<sup>th</sup> Woods/Percussion

6<sup>th</sup> Brass

Concert Band

Symphonic Band

Jazz Band

Beginning Orchestra

String Orchestra

Symph Orchestra

Pop Orchestra

## 8th Grade

Girls Choir

Boys Choir

Select Choir

6<sup>th</sup> Woods/Percussion

6<sup>th</sup> Brass

Concert Band

Symphonic Band

Jazz Band

Beginning Orchestra

String Orchestra

Symph Orchestra

Pop Orchestra

Survey of Music

Production

## **BEGINNING BRASS**

**0711A/B**

**Year long**

**6th/7th/8th**

This class is for any grade level student interested in playing the TRUMPET, FRENCH HORN, TROMBONE, BARITONE, or TUBA. This class is designed for students who have never played a brass instrument before! Come join and learn how to play some brass!

## **BEGINNING WOODWINDS/PERCUSSION**

### **0712A/B**

***Year long***                      **6th/7th/8th**

This class is for any grade level student interested in playing the FLUTE, CLARINET, SAXOPHONE or PERCUSSION INSTRUMENTS. This class is designed for students who have never played a woodwind or percussion instrument before! Come join and learn how to play a woodwind instrument or all of the percussion instruments. \*\*\*You must try out on percussion before you can choose to play it\*\*\*

## **CONCERT BAND**

### **0705A/B**

***Year long***                      **6th/7th/8th**

This class is for any grade level student that comes with previous experience. You must play for Mr. Burge first before you are placed in this group. You may be good enough to go to Symphonic band or may need some review in Beginning band first.

## **SYMPHONIC BAND**

### **0710A/B**

***Year long***                      **7th/8th**

This class is designed for the top band musicians at Janitell. You MUST audition to be in Symphonic Band. It will test your ability and challenge your skills!

## **JAZZ BAND**

### **0715A/B**

***Year long***                      **7th/8th**

By audition only. See Mr. Burge for more information

## **BEGINNING ORCHESTRA**

### **0739A/B**

***Year long***                      **6th/7th/8th**

Learn to play the violin, viola, cello or bass. In beginning orchestra you get to learn to play an instrument and make connections with other students. The more you play with others in the class, the better you get at your instrument.

## **STRING ORCHESTRA**

### **0730A/B**

***Year long***                      **7th/8th**

The intermediate level orchestra class for 7th and 8th graders. This class is designed for students who may need additional help with orchestral skills. The students in this class rehearse in class every day in order to become better musicians.

## **SYMPH ORCHESTRA**

### **0732A/B**

***Year long***                      **7th/8th**

The Advanced level orchestra class for 7th and 8th graders. This class is designed for students who have achieved success in their previous orchestra classes and are ready to have multiple concerts during the year. The students in this class perform at school assemblies, competitions and are at the center stage for Orchestra Concerts.

## **POP ORCHESTRA**

**0736**

**Semester**                      **6th/7th/8th**

This class is designed for 7th and 8th grade orchestra students who want to have more opportunities to play orchestra music. The students in this class learn classic pop songs and movie songs as well.

## **BEGINNING CHOIR**

**0727A/B**

**Year long**                      **6th**

This class is designed to help 6th grade students to learn the basics of choir at Janitell. This class will reinforce skills learned in elementary school and it will prepare students for all of the amazing opportunities to audition for honor groups in 7th and 8th grade.

## **GIRLS CHOIR**

**0726A/B**

**Year long**                      **7th/8th**

This class is designed for 7th and 8th grade students. Students do not have to have experience in choir to join this class. In this class students will build confidence and continue to build on skills from previous years experience, while prepping for a high school choral class.

## **BOYS CHOIR**

**0725A/B**

**Year long**                      **7th/8th**

This class is designed for 7th and 8th grade male students. Students do not have to have experience in choir to join this class. In this class students will build confidence and continue to build on skills from previous years experience, while prepping for a high school choral class.

## **SELECT CHOIR**

**0722A/B**

**Year long**                      **7th/8th**

This class is designed for 7th and 8th grade students who have excelled in choir during their 6th and/or 7th grade years. Select choir is an auditioned class. In this class students will continue to build confidence and build on skills from previous years experience, while prepping for a high school choral class. Students in this class are asked to do more performances and audition for honor groups throughout the year.

# PHYSICAL EDUCATION DEPARTMENT



**6<sup>th</sup>**

PE 6

Team Sports

**7<sup>th</sup>**

PE/Health 7

Team Sports

PE Elective

**8<sup>th</sup>**

PE 8

PE Elective

**PE6**

**0805**

**Semester**

**6<sup>th</sup>**

PE provides students with the opportunity to learn about physical fitness, a variety of sports, sports related movements, and lifetime activities. Emphasis is placed on active participation, social interaction and sportsmanship during fitness and sports activities.

**PE/Health 7**

**0802**

**Semester**

**7<sup>th</sup>**

PE/Health provides students with the opportunity to learn about physical fitness, a variety of sports, sports related movements, and lifetime activities. This class also consists of health related topics such as nutrition, conflict, and growth and development.

**PE8****0803****Semester**                      **8th**

PE provides students with the opportunity to learn about physical fitness, a variety of sports, sports related movements, and lifetime activities. Emphasis is placed on active participation, social interaction and sportsmanship during fitness and sports activities.

**TEAM SPORTS****0810****Semester**                      **6th7th**

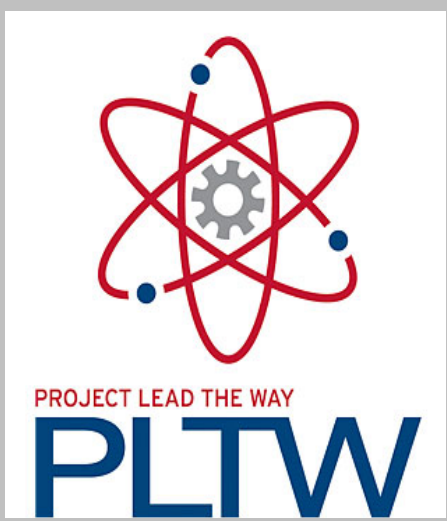
Team Sports provides students with the opportunity to learn a variety of teams sports and sport related skills. Emphasis is placed on active participation, social interaction and sportsmanship during fitness and sports activities.

**PE ELECTIVE****0804E****Semester**                      **7th/8th**

PE Elective provides students with the opportunity to learn a variety of teams sports and sport related skills. Emphasis is placed on active participation, social interaction and sportsmanship during fitness and sports activities.

### What is “Project Lead the Way (PLTW)”?

PLTW is a national program that has formed partnerships among public schools, institutions of higher education, and industry to increase the quantity and quality of students graduating from engineering and engineering technology institutions. The challenge to high schools and colleges today is to graduate students who are competent in the skills needed in today’s technological climate – math, science and technology, problem solving, communication and teamwork that promote broad-based solutions to the problems and challenges of society.

	<b>Widefield School District 3 STEM Programs</b>
	PLTW   Biomedical Science
	PLTW   Computer Science
	PLTW   Engineering

### PLTW | Pathways

<u>Biomedical Science</u>	<u>Computer Science</u>	<u>Engineering</u>
Medical Detectives	App Creators Comp Sci Innovators/Maker	Flight & Space Design & Modeling Automation & Robotics Automation & Robotics II Magic of Electrons

### PROJECT LEAD THE WAY—BIOMEDICAL SCIENCES PATHWAY

#### PLTW: MEDICAL DETECTIVES

1663

**Semester**

**8th**

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a “crime scene.” They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

## **PROJECT LEAD THE WAY - COMPUTER SCIENCES PATHWAY**

### **PLTW: COMP SCI INNOVATORS/MAKER**

**1669**

**Semester**                      **7th/8th**

Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development, allowing students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects (recommended for first time computer students)

### **PLTW: APP CREATORS**

**1671**

**Semester**                      **7th/8th**

Students will be exposed to computer science as a means of computationally analyzing and developing solutions to authentic problems through mobile app development, and conveys the positive impact of the application of computer science to other disciplines and to society.

## **PROJECT LEAD THE WAY—ENGINEERING PATHWAY**

### **PLTW: FLIGHT & SPACE**

**1642**

**Semester**                      **6th**

The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test a skimmer (hovercraft), kite, airplane, airfoil, hot air balloon, and rocket.

### **PLTW: MAGIC OF ELECTRONS**

**1666**

**Semester**                      **7th/8th**

Through hands-on projects, students explore electricity, the behavior and parts of atoms, and sensing devices. They learn knowledge and skills in basic circuitry design like Ohm's Law, and examine the impact of electricity on the world around them.

### **PLTW: DESIGN & MODELING**

**1639**

**Semester**                      **7th/8th**

Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. Using design software (CAD), students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

### **PLTW: AUTOMATION & ROBOTICS**

**1640**

**Semester**                      **7th/8th**

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems.

Students use new programming language to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

**PLTW: AUTOMATION & ROBOTICS I & II**

**1640/1667**

***Year long***                      **7th/8th**

This class is the same as Robotics I; however, it is a year long course that dives deeper into mechanisms, gear ratios, exploratory robots and extensive coding.

**PLTW: GREEN ARCHITECTURE**

**1670**

***Semester***                      **7th/8th**

Students will learn how to apply green architecture concepts to the fields of architecture and construction by exploring dimensioning, measuring, and architectural sustainability as the design affordable housing units using Autodesk's 3D architectural design software.

# TECHNOLOGY DEPARTMENT



## Technology Literacy

1508

**Semester**                      **6th/7th/8th**

This course begins with keyboarding skills and goes on to developing animated slideshows and learning how to use the various components in google and microsoft word. Students will also begin learning about developing a website using HTML. In the second 9 weeks of the semester students will learn how to code various apps and program an arduino using python programming. (Recommended for first time computer students)

## Technology Tools

1565

**Semester**                      **7th/8th**

This course is a continuation of Technology Literacy and moves into more advanced computer and programming skills. Technology Literacy is a prerequisite for this course.

## Special Programs



6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
Skills in Leadership (2 <sup>nd</sup> semester)	Skills in Leadership	Skills in Leadership
Enrich Explore	Publication & Design	Publication & Design
Instructional Lab	Enrich Explore	Enrich Explore
Educational Success	Instructional Lab	Instructional Lab
	Study Center	Study Center

### EDUCATIONAL SUCCESS

**0804E**

**Semester**                      **6th**

A smaller, more personalized class for students that need extra assistance in organization, time management, help maintaining passing grades, extra time for assignments & reinforcement/additional help with concepts

### ENRICH/EXPLORE

**0804E**

**Semester**                      **6th7th/8th**

This is an elective class for students with an Advanced Learning Plan. In this class, we work on familiarizing and setting our ALP academic goals and affective goals. Students can expect to engage in a variety of activities to include real-life problem-solving in a variety of disciplines, participation in high-level discussion & thinking activities, and team building/leadership skills. We also focus on independent research, information literacy, and creating digital portfolios. We also address affective education: organization, character, and self-advocacy

*+This class does not replace their curriculum, it is a supplementary support for gifted and talented students +*

## **INSTRUCTIONAL LAB**

**0804E**

***Year long***                      **6<sup>th</sup>/7th/8th**

Academic, social emotion, and executive functioning support class for special education students to receive help with assignments and work on IEP goals.

## **STUDY CENTER**

**0804E**

***Semester***                      **7th/8th**

Study Center is a support class for students. Emphasis is placed on core classes, organization, planner utilization, student self advocacy, preparation for high school, and assisting in helping students create lifelong learner habits. The Study Center program is designed to assist students' learning, understanding, and reinforcement of concepts and/or assignments presented in the general curriculum. Students have the opportunity to develop and strengthen good study habits and learning strategies through various instructional methods and strategies. Goals and objectives identified by students, teachers, and parents will be integrated into the students' daily routine. The study skills teacher will collaborate with teachers on an on-going basis to help develop strategies and support student learning as needs arise and to best help meet academic requirements of the classroom.

## **SKILLS IN LEADERSHIP**

**0804E**

***Year long***                      **6th/7th/8<sup>th</sup>**

Skills in Leadership is the class for our student council members. Our Student Council is very active in our school and they do everything from planning school morale projects to our school dances. There are opportunities to get involved in community service projects. It gives our students chances to expand beyond their comfort zone and be great public speakers and role models for other Janitell Jags. You must apply for this program as there are eligibility requirements and expectations that extend beyond the regular school day. In order to be eligible, you must maintain a C average and have no failing grades in your academic classes. You also must display appropriate citizenship and attitude.

## **PUBLICATION & DESIGN**

**0804E**

***Year long***                      **7th/8th**

Students selected for this year-long class will ultimately create our school's yearbook. We'll explore story writing, interview techniques, page design, photography, and caption writing. Apply today--we put the "Yea!" in Yearbook!

# SPANISH DEPARTMENT



**6th**

Exploring Spanish

**7th**

Beginning Spanish

**8th**

Beginning Spanish  
Spanish I

## EXPLORING SPANISH

**0804E**

**Semester**

**6th**

Exploring Spanish is all about taking a cultural dive into the world of Spanish speaking countries. Whether through food, celebrations, or basic knowledge of conversations, Exploring Spanish is a fun and easy way to take your first steps into a different world. In this course, students will have an opportunity to create their very own Day of the Dead altars, and their very own piñatas. They will also explore common courtesy, exotic or common foods, and Latin American art.

## BEGINNING SPANISH

**0804E**

**Year long**

**7th/8th**

Beginning Spanish is an expansion of what started in Exploring Spanish. There will be a higher emphasis on improving Spanish language skills and becoming aware of cultural differences. Students will be challenged to practice ordering food at a restaurant. Students will also be challenged to engage in simple conversational topics including weather, school, sports, animals, etc. The most important aspect will be learning how to communicate basic needs and sharing likes or dislikes. Ludwig Wittgenstein, regarded by many as the best 20th century philosopher, once exclaimed, "The limits of my language are the limits of my world." Are you ready to explore beyond your limits?

## SPANISH I

**0804E**

**Year long**

**8th**

Spanish I is a course designed to prepare students for Spanish courses in high school. Spanish learners will continue to further expand their foreign language skills in the domains of reading, writing, listening, and speaking. There will be additional emphasis on expanding vocabulary and acquiring verb conjugation skills. Ludwig Wittgenstein, regarded by many as the best 20th century philosopher, once exclaimed, "The limits of my language are the limits of my world." Are you ready to explore beyond your limits?