

Spring 2015 Exhibition



Room #	Explanation of Project
101 Ms. Flower <i>English 9</i>	Speak it Like You Mean It! Come to Ms. Flower's Poetry Slam and be inspired as you listen to the poetry of famous poets as well as our own original poems. Does poetry have the power to impact others' lives? Come find out and you'll be moved without a doubt!
102 Ms. Lodhy <i>English 9</i>	Be Heard! The focus of the "Be Heard" Project is to make a positive impact on the music industry. After studying poetry and music, students were asked to write an original song about an important social issue that impacted the world. The songs needed to be recorded and performed via spoken word, rap, or a song. Students became masters of poetry by practicing "The Seven Steps" of explication, identifying both auditory and cognitive devices. Their collection of annotated and explicated poems and songs were combined to create a comprehensive poetry portfolio.
103 Dr. Weatherford <i>Economics</i>	The Game of Life: College Edition! Are you ready for the future? Is college a terrifying financial black hole you'd rather not think about? How much in loans will you have to take out? What will your career be? Will you be able to pay off the loans? What will your return on investment be? Come find out in room 103 in the brand new Game of Life: College Edition!
104 Mr. Wimer <i>English 11</i>	Gatsby Mansion: Where your dreams await. Whisper the password, enter the speakeasy. Come as a flapper, come as you are. Come as a dapper gent or a silent screen star. The Gatsby Mansion is located at West Egg (Wimer's English 11 Room) Don't miss the party of the year!
105 Mr. Anderson <i>US History</i>	Follow the Yellow Brick Road Join Mr. Anderson's U.S. History & HIS 102 as they take you on a familiar journey with Dorothy, the Scarecrow, the Tin Man and the Cowardly Lion and explore the political and cultural allegory <i>behind</i> L. Frank Baum's 1900 classic, <i>The Wonderful Wizard of Oz</i> . Think you know this story? Think again! Join us as we uncover the hidden historical truth behind this beloved tale.
106 Mrs. Ichiroku <i>World History</i>	WWII Game Night Come and join us in Mrs. Ichiroku's class for a night of games! We will be playing classic board games with an educational twist created by our very own DVS sophomores. You will learn about the causes, effects, and events that fueled World War II, all while having the fun of a family game.
107 Ms. Cha <i>English 10</i>	Cha-ffee House Come on through to the Cha-ffee House! Get a taste of the creativity of the students in English 10. Enjoy a nice cup of hot chocolate while enjoying a night of open mic with our very students presenting their own original poems.
110 Mr. Thomson <i>Chemistry</i>	Nuclear Chemistry In our most recent project, students have been learning about the structure of the atom while modeling how the atom can change in nuclear reactions. Visitors to our classroom will learn about one or more of these nuclear reactions (i.e., nuclear fusion, nuclear fission, and radioactive decay). Students will present their knowledge of the reactions using 3-dimensional models created using the modeling software SketchUp. At the end, visitors will be asked a question based on students' presentations, earning a Chemistry Badge/Certificate that they may wear with pride if they answer the question correctly.
111 Mr. Choi <i>Biology</i>	The Great Sperm Maze Come join us in room 111 to explore the fascinating world of biology and gain a greater understanding of mitosis, meiosis, cancer, and fertilization. Enter the Great Sperm Maze and learn about the horrific journey of the sperm cell--how it battles its way to the fallopian tubes and eventually reaches the egg. Some will find success, some will fail... only you can take the journey.
112 Mr. Besina <i>Anatomy</i>	Eaten Alive! Take on the role of food and travel down the digestive system! Explore the different organs as you make your way through the once-mysterious alimentary canal. Take an in-depth look at the vital processes of digestion and absorption!
113 Ms. Larson <i>Physics</i>	Wheel of Forces Welcome to the Newton's Laws Edition of Wheel of Forces! Tonight's Physics hosts are excited to challenge you with inertia activities in round 1 of the game show. You will identify forces, explain acceleration, and describe free-body diagrams in round 2. Finally, in round 3, our experts will assist you in busting the most common myths about action and reaction forces. May the mass times acceleration be with you!
201 Mr. Divinagracia <i>Algebra 2</i>	Are We Living in Beautiful or Dangerous Times? Be ready to learn more about our world through the eyes of mathematics. See how our world today is growing or decaying exponentially right in front of our eyes. The question is: are the times we are living in beautiful or dangerous? Warning: watch out for spontaneous dancing from the students.
202 Ms. Kondo <i>Calculus</i>	The Optimal Dorm Project In the Optimal Dorm Project, the Seniors played the role of engineers and architects to design their own dorms, recreational facilities, cafeterias, and study rooms. With the help of derivatives, the students designed a room that would allow the largest volume and best materials with the lowest cost!

301 Ms. Magaña <i>Spanish</i>	iPura Vida! Come take a walk through a Costa Rican forest, where you can learn about some of nature’s wild life. After your walk through the forest, you can take a seat and watch a video that tells the story of a 17-year-old girl from Denver who goes on a journey to Costa Rica with a 7-year-old boy, and at the end learns a lot about herself and the beauty of the Costa Rican life.
303 Ms. Crosby <i>American Sign Language</i>	Easier Said Than Done American Sign Language is the 3 rd fastest growing language behind English and Spanish. Come learn how to fingerspell your name, observe a signed skit or song, and participate in a Sign Game.
801 Mr. Prendergast <i>Digital Art</i>	Animation Domination Welcome to the premiere of Animation Domination. Students have individual stations showing the process of creating their claymation videos, while all of the videos from every class will play on a loop in the back of the classroom. We hope to see you there!
803 Ms. McLean <i>College Writing</i>	Personal Finance Consultancy Are you a college student trying to balance loans and tuition, or a recent graduate worrying about saving for the future, or even a mid-career professional looking to build a retirement account? Come to College Writing where a team of professional financial advisors will break down your pecuniary woes!
Innovation Lab Ms. Whitmore <i>English 12</i>	American Dreamers’ Studio Come visit American Dreamers’ Studio in the Innovation Lab, where you will rediscover your own definition of the American Dream. Through podcasts you will discover Da Vinci students’ concept of the American Dream based on the 1959 play <i>A Raisin in the Sun</i> . You can also hear points of view on other films like <i>Selma</i> , <i>Rocky</i> , <i>The Pursuit of Happyness</i> and more. Please come on by and let us enlighten you on the ideas of the American Dream.
Project Lead the Way Showcase <i>(Room 500 / Forum / Multi-Purpose Room)</i>	<p>Introduction to Engineering Design (Teacher: Mr. Lenny Pérez) & 9th Grade Math (Teacher: Ms. Caline K. Smith) Welcome to Ms. Smith and Mr. Perez’s birdhouse gallery! Here, students will show you the birdhouses that they designed and built in their engineering classes. They will also walk you through the Excel spreadsheets that they designed in their math classes to estimate the cost of painting the birdhouses if they were larger, human homes. Please feel welcome to ask any questions, and enjoy the gallery!</p> <p>Principles of Engineering (Teacher: Ms. Kat Ramos) Students have spent the past month designing, building, and coding a prototype for a recycling sorter. Their designs started out on paper (the brainstorm phase), moved to Inventor (the design phase), then moved on to the actual build (create/make a prototype phase). Stop by to see the students demonstrate their knowledge of simple machines, Inventor, and RobotC coding.</p> <p>Engineering Design and Development (Teacher: Mr. Aaron Tostado) Visit Da Vinci’s award-winning robotics team, the Vitruvian Bots, as they demonstrate their robot for the 2015 FIRST Robotics Competition! Walk through the team’s engineering process and witness the thrill of robotics as students recreate the robot’s competition success through live demonstration, highlight reels, and detailed student presentations.</p> <p>Biotechnical Engineering (Teacher: Mr. John Choi) A (mock) murder has occurred! The biotechnology class of Da Vinci Science High School will guide you through this harrowing mystery, using methods of blood spatter analysis, fingerprint and hair identification, and DNA fingerprinting. Come join this PLTW journey and see what the inner world of crime scene forensics has to offer. Some lucky few will also be able to extract their DNA--taking what they have within home...in a test tube.</p> <p>Digital Electronics (Teacher: Mr. Lenny Pérez) A microcomputer is a small, relatively inexpensive computer with a microprocessor as its central processing unit. Microcontrollers are used to control many everyday products like garage door openers, traffic lights, home thermostats, and robots. Embedded controllers are everywhere. In this unit, students created their programs (sketches) to control systems with unique sensors, human input controls, motors, and servos. The ATmega328 microcontroller found on the Arduino Uno Microcontroller Board will be used to explore these controls and inputs.</p> <p>Computer Integrated Manufacturing (Teacher: Mr. Aaron Tostado) Our seniors and their journey through the engineering design process in their capstone course. They will show of projects like their quad-copter transport device, to their CNC Milling projects, to their Competition aircraft vehicles!</p> <p>Civil Engineering & Architecture (Teachers: Mr. Andrew McGregor & Mr. Michael Prendergast) Students will be demonstrating how they have applied their knowledge of commercial structures to designing “Da Vinci Community.” Using everything from local codes, to beam, girder, and column calculations, students will discuss their current design and the tools they’ve used to get there.</p>

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