

# The Academy of Mathematics, Science, and Engineering at Cashman Middle School



**Mission:** Cashman Middle School's mission is to provide an expanded, rigorous, enriched curriculum that creates a profound, intense, and unique learning experience for students.



Transportation zones may be viewed at <http://magnet.ccsd.net>

## Program at-a-glance

Cashman Middle School Academy of Mathematics, Science, and Engineering (AMSE) is a cutting-edge program that addresses the interests of middle school students, while incorporating the national standards in math, science, and technology. The program provides students with an integrated engineering, science, and mathematics curriculum in extended blocks. Cashman's program provides project-based learning – a hands-on approach – that is exciting and fun for highly -motivated students. Our program is rigorous in all classes; students start with high school content in sixth grade. All sixth grade students take an Introduction to Design and Modeling class where they learn and practice the engineering design process through various design challenges. They learn to use SketchUp, a computer aided 3D design program, to communicate their ideas. In addition to the Introduction to Design and Modeling class, students are required to complete an engineering capstone project each year. In sixth grade, students complete a Biomedical Innovation project. Students are given a medical scenario for a patient who has a disability with various symptoms. They work in engineering teams to design a biomedical engineering solution to help alleviate the complications the patient is facing. In seventh grade, students complete a Green Architecture Project. During this project, students are required to use Autodesk® Revit® to design container homes as well as redesign Cashman Middle School. Students must keep material and energy concerns in mind as they work on their designs. In eighth grade, students complete the Alpha Colony Project. Engineering teams are required to start a hypothetical colony on a distant planet. Teams build a society by developing various engineering solutions as well as making geographical and governmental decisions. The goal of AMSE is to enhance academic achievement and provide opportunities and motivation for students to ask questions, seek answers, explore ideas, acquire knowledge, and experience understanding.

## School Name Facts at-a-glance

Established: 2008  
Grades: 6 - 8  
School Hours: 7:20 a.m. - 2:21 p.m.

Principal: Misti Taton  
Magnet Coordinator:  
Jessica Salazar

### Special Features:

- Magnet School of Excellence 2014-2017
- Excellence & Superior Ratings for Orchestra, Guitar, Band, and Choir
- Award winning Art Program
- Cougars' Den - Strong after school program
- Competitive House of Cards, Future Cities, and Rubik's Cube teams
- Students selected to attend Naval Academy's summer program
- Site specific Science curriculum
- SpringBoard Demonstration School
- Project-Based Learning
- Strong community partnerships
- AMSE Advisory Board
- Academic teaming and House system

**Cashman Middle School**  
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