GRODES: ROBOTICS

WHAT WILL WE DO IN THIS CLASS?

- ★ We'll use the 8 Engineering Practices (NGSS) to help us solve robotics problems.
- ★ We'll use Legos Mindstorm kits and creativity to:
 - Learn how to build and program robots
 - Explore real life
 themes and challenges



WHY STEM?

- ★ Develop & improve critical thinking skills.
- ★Increase scientific literacy.
- ★ Develop 21st century skills to become the next generation of innovators.
- ★ Expose students to career possibilities in STEM.
- ★ Stem jobs in the USA are in demand and will continue to grow to over 9 million by the year 2022.



GRADES 5,6,7,8

Develop & improve critical thinking skills and scientific literacy through STEM class.



MS. KLEINMAN
bkleinman@hwporter.org
Room 701/708

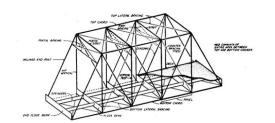
MRS. CROTEAU ccroteau@hwporter.org

croteau@nwporter.org Room 701/706

GRODE5: STRUCTURES

WHAT WILL WE DO IN THIS CLASS?

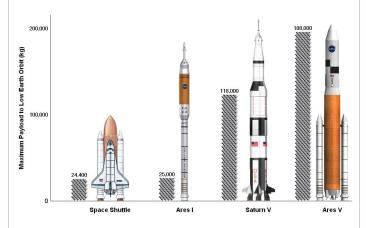
- ★ We'll use the 8 Engineering Practices (NGSS) to help us solve structural problems.
- ★ We'll do a variety of activities and labs:
 - What's an Engineer?
 - Tall Towers Challenge
 - o The Bridge Project



GRADE 6: ROCKETRY

WHAT WILL WE DO IN THIS CLASS?

- * We'll use the 8 Engineering
 Practices (NGSS) to help us solve
 aeronautical problems.
- ★ We'll do a variety of activities and labs:
 - What's an Engineer?
 - Hoop Flyers Challenge
 - o The Rocket Project



CRODE7: PROJECTO

WHAT WILL WE DO IN THIS CLASS?

- ★ We'll use the 8 Science & Engineering Practices (NGSS) to help us solve environmental/marine science problems.
- ★ We'll work on site at Project Oceanology, UCONN at Avery Point, Groton, CT, and in the classroom.
- ★ We'll do a variety of activities and labs:
 - Life in the Long Island
 Sound
 - Water Quality Labs
 - Population Studies

