

Kemper Academy

8th Grade Engineering Essentials

Supply List

- 3 ring binder 1.5 inch
- Tab dividers (1 Pack)
- Wide rule notebook paper
- Graph Paper
- Pencils
- Blue or black erasable/friction pens
- Highlighters
- Calculator (TI30XIIS)
- Computer Mouse
- USB Thumb Drive 16gb+

Curriculum

- Unit 1 – Inclined to Design
 - Foundation for impactful engineering
- Unit 2 – Make it Move
 - Practical engineering model development
- Unit 3 – Power it Up
 - Digital circuits for innovation
- Unit 4 – Make a Plan
 - Geographic systems for development

Welcome!

Welcome to Engineering Essentials! I'm thrilled to embark on this exciting journey with each of you. This class will dive into the expansive engineering world, where you'll tackle real-world problems and explore diverse career opportunities within industrial, mechanical, electrical, and civil engineering.

Throughout this course, you'll develop an engineering mindset as you utilize various tools and techniques, including spreadsheet software, 3D modeling programs, circuit simulators, and geographic information systems. You'll learn to design, document, and effectively communicate your engineering projects.

Remember to adhere to our codes of conduct to ensure a positive and productive learning environment, whether you're learning in the classroom or from a distance. Let's make this a fantastic year of discovery and innovation!

Teacher Info

Dr. Adam Wade

a.wade@kemperacademy.com

601-701-3010

149 Walnut Ave, DeKalb, MS 39328

Remind: Enter number "81010" and text "@ka8thsci"

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Grading Scale

Lower Limit	Description
100% - 90.0%	A
89% - 80.0%	B
79% - 70.0%	C
69% - 65.0%	D
64% - 0%	F

Grade Weights

Category	Weight
Classwork	15%
Homework	15%
Quizzes	20%
Projects/Tests	30%
Nine-Weeks Exam	20%
Total	100%

Engineering Essentials Code of Conduct

Welcome to PLTW Engineering Essentials! To ensure a productive and respectful learning environment, please adhere to the following guidelines:

1. **Active Participation:** Engage fully in all activities, discussions, and projects. Your involvement is crucial for personal growth and team success.
2. **Respect and Collaboration:** Work respectfully with peers, valuing diverse perspectives and constructive feedback. Foster a collaborative spirit in all group activities.
3. **Communication:** Keep open lines of communication with your teacher regarding materials, resources, and any challenges you encounter. Timely updates and feedback help us address any issues effectively.
4. **Adherence to Deadlines:** Meet all assignment deadlines and follow submission guidelines. Plan your work to manage time efficiently.
5. **Integrity:** Uphold academic honesty in all assignments and projects. Ensure that all work is your own and properly cited.
6. **Safety and Conduct:** Follow all classroom and school rules to maintain a safe and supportive learning environment.

Let's work together to make this a successful and enjoyable year of exploration and learning!