**Module 8- Individual Homework Assignment**

**View the video** [Magnesium Alloys](https://youtu.be/92crjyvc7E4) (9:57)

As you watch the video, consider answers to the following questions:

1. What current demands—both social and economic--are leading materials scientists to develop lightweight materials for use in the 21st century?
2. How do the properties of existing materials limit the design of products like automotive vehicle bodies or airplane parts?
3. What new technologies are allowing scientists to develop and apply lightweight materials for industrial use?
4. What will it take to make lightweight materials widely usable?
5. How might the growing use of lightweight materials in one industry affect other manufacturers, suppliers, or inventors? In other words, might these new materials cause any creative destruction in the same way that steel did in 19th century America?

**Turn-in Written Assignment for Grade before the start of class on Day 3.**

Please answer the questions in either bullet points or full sentences. Your response will probably take ½ to 1 page. Assignment will be graded out of 2 points on effort, use of the lecture, video, and reading materials, and thoughtful reflection. Be sure your name is on the paper. A cover page is not necessary.

**Your grade will be determined from the following criteria.**

Grading Rubric.  Your grade will be determined from the following criteria.

2= Responses are appropriate, thoughtful, and indicate engagement with the video and any other required viewing/reading materials.  Grammar, sentence structure and punctuation are correct.

1= Responses and arguments are incomplete and/or inconsistent with the required viewing/reading material. Some issues with grammar, punctuation and or sentence structure.

0= Responses are not appropriate to the assignment or missing entirely. Major issues with grammar, punctuation and or sentence structure

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Points = 2