

Aerospace Education Report 2016 Spring Section

Note: Advisor Angie Slingluff was unable to attend, but send the following information:

AIAA.org <http://www.aiaa.org/MicroLessons/>

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Aerospace Micro-Lessons

STEM K-12 Committee is proud to present "Aerospace Micro-Lessons." These lessons are easily digestible lessons focused on aerospace principles. Each lesson is broken down into grade levels and are meant to spark conversation and interest in aerospace. Lessons will range from engineering, to mathematics, to physics, to highlighting aerospace anniversaries -- all of which will be presented, easily relates to your students.

- Lesson 1: [The Earth's Hemisphere - PDF Version](#)
- Lesson 2: [Trash in Space - PDF Version](#)
- Lesson 3: [Living in Space - PDF Version](#)
- Lesson 4: [Large Numbers - PDF Version](#)
- Lesson 5: [Observing the Moon - PDF Version](#)
- Lesson 6: [Up, up, and Away in my Beautiful Balloon - PDF Version](#)
- Lesson 7: [How Long is a Day? - PDF Version](#)
- Lesson 8: [Orbital Dynamics - PDF Version](#)
- Lesson 9: [Transit of Mercury - PDF Version](#)
- Lesson 10: [Jackie Cochran - PDF Version](#)
- Lesson 11: [Gemini VIII - PDF Version](#)
- Lesson 12: [Air Speed - PDF Version](#)
- Lesson 13: [Asteroids and Dinosaurs - PDF Version](#)
- Lesson 14: [Spinning Ball of Water in Space - PDF Version](#)
- Lesson 15: [Metric Units of Measurement - PDF Version](#)

Your feedback is important to us! To provide your thoughts, ideas, or suggestions for improvement, please [click here](#).

Thank you and enjoy your Aerospace Micro-Lessons!

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<http://www.aiaa.org/STEMK-12/>



STEM K-12 *outreach*

AIAA STEM programs help teachers inspire, influence, and mold the next generation of aerospace scientists and engineers by providing a series of resources and programming to teachers, students, parents, and aerospace professionals. AIAA programs enlighten and engage our global community of future aerospace professionals by helping them learn more about science, technology, engineering, and mathematics – subjects which will give them the tools to advance aerospace.

AIAA supplies teachers with all the tools they will need to stir the curiosity of their students, and those tools are fun, engaging, and, mostly, “hands-on,” to ensure the students thrive in their learning environment. From [classroom grants](#), to standards based projects, to our signature program “[Generation STEM: Discovering Aerospace Through Experience](#),” AIAA is committed to providing students with exceptional learning experiences, and teachers with the tools and resources to create those moments.

AIAA also believes that every teacher is an extraordinary, committed, individual, passionately devoted to making STEM subjects timely and relevant to their students. Biennially, the [AIAA Foundation](#) presents the [Foundation Educator Achievement Award](#) to five (5) outstanding teachers who have done outstanding work in helping students understand and appreciate the science and engineering behind aerospace, by inspiring their students’ interest in STEM subjects and by bringing the “real world” into their classrooms.

<https://www.aiaa.org/AIAA-PROMO.aspx?id=26351>

TAKE ADVANTAGE OF AIAA'S **FREE** EDUCATOR ASSOCIATE MEMBERSHIP

AIAA Educator Associates access resources for their STEM programs, make contacts that will help them bring the “real world” into their classrooms, and receive recognition for their outstanding work with the future engineers and scientists that will take aerospace to new heights.

Help enhance and solidify your impact on the future of aerospace, and access all of the resources AIAA has to offer.

JOIN TODAY

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Educational Resources <http://www.aiaa.org/EducationalResources/>

[For Teachers](#)

[For Students](#)

[For Parents](#)

[For Engineers](#)

For Teachers

A free [Educator Associate membership](#) puts you in touch with scores of engineers in your local community who are willing and able to help in the classroom.

[Foundation Classroom Grants](#) help fund standards-based hands-on inquiry projects relating to aerospace or engineering.

Take advantage of our [Aerospace Micro-Lessons](#), brought to you by the AIAA STEM K-12 Committee. Lessons range from engineering, to mathematics, to physics, to highlighting aerospace anniversaries -- all of which should be easily relatable to your students.

The [Educator Academy](#) is designed as standards-based hands-on curriculum that provides "real-world" connections that make your classroom come alive!

The AIAA Foundation [Educator Achievement Award](#) recognizes outstanding educators for their accomplishments in exciting K-12 students about STEM and preparing them to use and contribute to tomorrow's technologies.

NASA Resources

Looking for videos, podcasts and ways to make your lessons more exciting? Check out [NASA's video gallery](#)

NASA also provides a wide variety of K-12 curriculum, activities, and so much more. For NASA educational resources, [click here](#).

FAA Resources Looking for curriculum and information about aerospace from air traffic control, to aircraft design to new horizons in commercial space travel? [Click Here](#) to explore many FAA Educator Resources.

NOAA Resources NOAA offers a plethora of [educator resources](#) in many different formats. Don't miss out on these great NOAA opportunities.

For Students

The aerospace industry offers a wide array of choices when it comes to a career. There is a job for everyone in one discipline or another. Our publication, [Careers in Aerospace](#) gives you great information about what you need to study, and profiles some of our members who hold interesting jobs in the industry.

Interested in [Structural Dynamics](#)? The Structural Dynamics Technical Committee has created a [website](#) to educate people, mainly students, on Structural Dynamics and its influence in Aerospace Engineering and get them interested in that field or career.

[NASA Student Resources](#)

[FAA Student Resources](#)

[NOAA Student Resources](#)

For Parents

Looking toward your child's future? AIAA offers a variety of opportunities to [University Students](#), including, [Scholarships](#), [Design Competitions](#), [Student Conferences](#), and so much more.

For Engineers

People who serve as role models can inspire students to see the relevance of science, technology, engineering, and mathematics to the real world, making the subject matter come alive. Whether you have participated in the training or are viewing it online, AIAA wants you to have the tools to make you successful when working with students in a formal or informal venue. The [Engineers as Educators](#) Workshop will arm you with the tools to help you plan and execute powerful experiences and excite the next generation of engineers.