



PRINCIPLES OF FLIGHT

In partnership with EADS Airbus, *Principles of Flight* gives middle and high school teachers an insider's view of the aeronautics industry and the real world application of STEM concepts. Teachers will work side by side with Airbus employees to gain a deeper understanding of 3D CAD design and prototyping techniques. The course explores mechanical part design and virtual assemblies. The program provides a direct comparison between Computer Aided Design and actual mechanical prototypes. CAD designs and prototypical models will be evaluated by the group to analyze strengths and weaknesses of each design.



During the workshop teachers will have access to laptop computers loaded with SolidWorks 3D, CAD (Computer Aided Design) Academy software, and flight simulation software. Additional supplies include data collection worksheets, and industry representatives to assist with the CAD training component. Teachers will be able to download an online information packet to assist them with classroom implementation.

Principles of Flight will address the following ACOS standards:

- Grade 6, Math: 1
- Grade 7, Math: 1
- Grade 8, Science: 8.0, 9.1
- Grades 9-12, Physical Science: 7.3
- Grades 9-12, Physics: 1.0

Contact Candice Goins, Education Coordinator. 251.208.6818 or cgoins@exploreum.com
