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**<http://americanhelicopter.museum/programs/student-programs>**

## **“Science of Helicopters” Education Program Alignment with Education Standards**

### **Summary:**

The American Helicopter Museum & Education Center (AHM&EC) offers a variety of age-appropriate educational programs. Each program combines demonstrations, hands-on experimentation, discussion and video presentations, supported by the Museum’s extensive gallery. The use of real-life rotary wing aircraft and interactive displays in the Museum offer students of all ages a unique opportunity to see and learn about the applications of STEM subjects. In addition to our in-house program offerings, our school outreach program brings the learning to area schools, accompanied by our interactive helicopter on a trailer.

The AHM&EC is located in the Delaware Valley, heart of helicopter and rotary wing industry history. Our Education Programs use the ingenuity and innovation of rotary wing design and development to demonstrate and teach application of STEM subjects in K-12 grades.

The Tables below outline, by grade grouping, how AHM&EC Education Programs align to Pennsylvania State and National Science standards for STEM subjects. Please consult the referenced source web links for specific standards.

In addition to student programs, AHM&EC is a DOE PA Act-48 approved provider. Please contact us if your school or district is interested in learning about acquiring Continuing Education Units for your science or history teachers through our programs.



**References:**

**Next Generation Science Standards**

<http://www.nextgenscience.org/next-generation-science-standards>

based on

**National Research Council, Framework for K-12 Science Education**

[http://teachingcommons.cdl.edu/CSUNGSScommunity/ed\\_framework/documents/pdf.pdf](http://teachingcommons.cdl.edu/CSUNGSScommunity/ed_framework/documents/pdf.pdf)

**PA Department of Education Standards for Science and Technology and Engineering Education**

[http://static.pdesas.org/content/documents/PA\\_Common\\_Core\\_Standards\\_for\\_Reading\\_in\\_Science\\_And\\_Technical\\_Subjects\\_8-7-12.pdf](http://static.pdesas.org/content/documents/PA_Common_Core_Standards_for_Reading_in_Science_And_Technical_Subjects_8-7-12.pdf)

[http://static.pdesas.org/content/documents/PreK-2\\_Science\\_and\\_Technology\\_Standards.pdf](http://static.pdesas.org/content/documents/PreK-2_Science_and_Technology_Standards.pdf)

[http://static.pdesas.org/content/documents/Academic\\_Standards\\_for\\_Science\\_and\\_Technology\\_and\\_Engineering\\_Education\\_\(Elementary\).pdf](http://static.pdesas.org/content/documents/Academic_Standards_for_Science_and_Technology_and_Engineering_Education_(Elementary).pdf)

[http://static.pdesas.org/content/documents/Academic\\_Standards\\_for\\_Science\\_and\\_Technology\\_and\\_Engineering\\_Education\\_\(Secondary\).pdf](http://static.pdesas.org/content/documents/Academic_Standards_for_Science_and_Technology_and_Engineering_Education_(Secondary).pdf)

<http://www.pdesas.org/module/sas/curriculumframework/>

**NSTA's Support for NGSS**

<http://www.nsta.org/about/positions/ngss.aspx>





