AOPA FOUNDATION HIGH SCHOOL AVIATION STEM CURRICULUM

PACING GUIDE





REVIEWED ACCREDITED ACCREDITED

NINTH GRADE CURRICULUM

EXPLORING AVIATION AND AEROSPACE SEMESTER TWO

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		No. of Sessions Per Lesson	Day of Semester
Pre-Course Exa	m	1	1
Section A – Role	e of Government in Aviation Safety		
Lesson 1	Fundamentals of Aviation Safety	2	3
Lesson 2	The Federal Aviation Administration	2	5
Section B – Acc	ident Investigation		
Lesson 1	The Investigative Process	3	8
Lesson 2	Accident Case Study	3	11
Section C – Aviation Weather Services			
Lesson 1	Aviation Weather Reports and Forecasting	2	13
Unit 6 Exam		1	14

Total Sessions Unit 6 14 Semester Total 14

^{*}If the course is off pace for your school/schedule, we recommended that lessons denoted by an asterisk could be shortened or skipped. updated 7.20.21

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Unit 7: Exploring Careers in Aviation and Aerospace

Offic 7. Exploit	ing cureers in Aviation and Acrospace		
		No. of Sessions	Day of
		Per Lesson	Semester
Section A – Fly	ing		
Lesson 1	Flying Aircraft and Drones	4	18
Section B – Engineering			
Lesson 1	Becoming an Aerospace Engineer	2	20
Section C - Oth	ner Great Aviation Careers		
Lesson 1	Becoming an Air Traffic Controller	2	22
Lesson 2	Becoming an Aircraft Mechanic	1	23
Unit 7 Exam		1	24

Total Days Unit 7 10 Semester Total 24

^{*}If the course is off pace for your school/schedule, we recommended that lessons denoted by an asterisk could be shortened or skipped. updated 12.18.18

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Unit 8: Aviation Innovation and Problem Solving

		No. of Sessions Per Lesson	Day of Semester		
Section A – Go	oing Green				
Lesson 1	Reducing Aviation's Environmental Impact	3	27		
Section B – M	odernizing Airspace				
Lesson 1	Next Generation Air Transportation System	1	28		
Lesson 2	Integrating Drones	3	31		
Section C – Fu	ture Aircraft				
Lesson 1	Supersonic Aircraft	3	34		
Lesson 2	Autonomous Aircraft	3	37		
Lesson 3	Electric Aircraft	2	39		
Section D – Fu	ture Space Travel				
Lesson 1	Colonizing Space	3	42		
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Unit 8 Exam		1	43		
Total Days Unit 8 19					
Semester Total 43					
	X •				

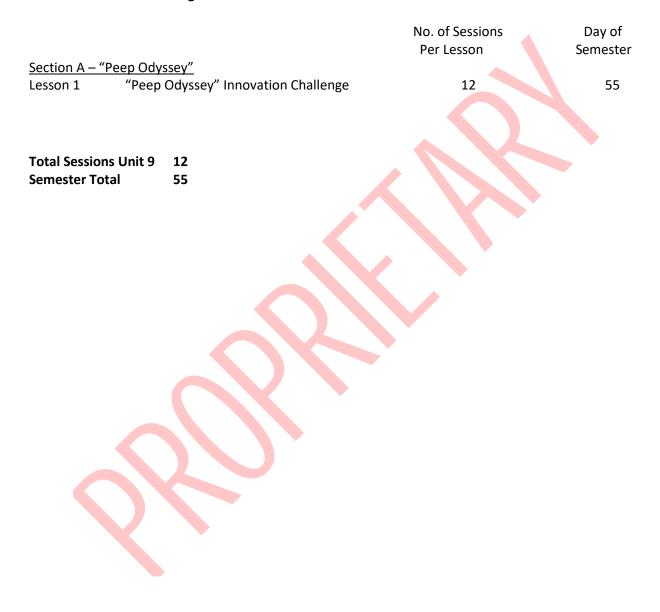
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Unit 9: Innovation Challenge



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Unit 10: Thinking About a Career in Aviation

	·	No. of Sessions Per Lesson	Day of Semester
Saction A - Pro	paring for an Aviation Career		
Lesson 1	Developing a Mission Statement*	2	57
Lesson 2	Investigating Education Options After High School*	2	59
Section B – Dev	veloping Professionalism		
Lesson 1	Professional Skills and Conduct*	2	61
Lesson 2	Building Communication Skills*	2	63
Section C – Car	eer Planning Project		
Lesson 1	Building a Career Portfolio*	5	68
Unit 10 Exam		1	69
Post-Course Ex	am	1	70

Total Days Unit 10 15 Semester Total 70

^{*}If the course is off pace for your school/schedule, we recommended that lessons denoted by an asterisk could be shortened or skipped. updated 7.20.21