

High School Earth & Space Science Correlations to PLT's "Focus on Forests"

ESS1 Earth's Place in the Universe										
Performance Expectations	Focus on Forests									
	Introduction	1	2	3	4	5	6	7	8	9
E-ESS1-1 Develop a model based on evidence to illustrate that energy generated by nuclear fusion within the sun (and other stars) radiates to and influences orbiting planets.										
E-ESS1-2 Construct an explanation of the Big Bang Theory based on evidence to show that the universe is changing over time.										
E-ESS1-3 Construct an explanation using evidence to explain the ways elements are produced over the life cycle of a star.										
E-ESS1-4 Use mathematical or computational representations to predict the motion of orbiting objects in the universe due to gravity.										
E-ESS1-5 Evaluate evidence of the past and current movement of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks.										
E-ESS1-6 Apply scientific reasoning and evidence from ancient Earth materials, meteorites, and other planetary surfaces to construct an account of Earth's formation and early history.										

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- Standard fully addressed
- Standard partially addressed

E Enrichment Activity
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ESS2 Earth's Systems

Performance Expectations	Focus on Forests									
	Introduction	1	2	3	4	5	6	7	8	9
E-ESS2-1 Use evidence to argue how Earth's internal and external processes operate to form and modify continental and ocean floor features throughout Earth's history.										
E-ESS2-2 Analyze data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.										
E-ESS2-3 Develop a model based on evidence of Earth's interior that describes cycling of matter through convection processes.										
E-ESS2-4 Use a model to describe how causes of short and long-term variations in the flow of energy into and out of Earth's systems result in changes to climate.									●	
E-ESS2-5 Investigate the ways that water (given its unique physical and chemical properties) impacts various Earth systems.							□			
E-ESS2-6 Develop a quantitative model to describe the cycling of carbon through the hydrosphere, atmosphere, geosphere, and biosphere.									●	
E-ESS2-7 Communicate scientific information that illustrates how Earth's systems and life on Earth change and influence each other over time.			●				●	●	●	

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E-ESS3 Earth and Human Activity

Performance Expectations	Focus on Forests									
	Introduction	1	2	3	4	5	6	7	8	9
E-ESS3-1 Construct an explanation based on evidence for how the availability of natural resources and occurrence of natural hazards have influenced human activity.		•	•				•			
E-ESS3-2 Evaluate competing design solutions that address the impacts of developing, managing, and using Earth’s energy and mineral resources.				•	•	•	•		•	
E-ESS3-3 Use computational representation to illustrate the relationships among the management of Earth’s resources, the sustainability of human populations, and biodiversity.		•					•	•	•	
E-ESS3-4 Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.	□				• E MC	• E MC			•	
E-ESS3-5 Analyze data & the results from global climate models to make an evidence-based forecast of the current rate of regional or global climate change & associated impacts to Earth’s systems.									•	
E-ESS3-6 Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.		•					•		•	
E-ESS3-7 Create an argument, based on evidence that describes how changes in climate on Earth have affected human activity.									•	

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HS Earth & Space Science Reverse Correlations to PLT's "Focus on Forests"

<u>PLT Activities</u>	Earth's Place in the Universe <u>(E-ESS1)</u>	Earth's Systems <u>(E-ESS2)</u>	Earth and Human Activity <u>(E-ESS3)</u>
Introduction: Forests are more than trees.			<input type="checkbox"/> E-ESS3-4
1 Monitoring Forest Health			<ul style="list-style-type: none"> ●E-ESS3-1 ●E-ESS3-3 ●E-ESS3-6
2 Story of Succession		●E-ESS2-7	●E-ESS3-1
3 Who Owns America's Forests?			●E-ESS3-2
4 Tough Choices			<ul style="list-style-type: none"> ●E-ESS3-2 ●E-ESS3-4
5 The Nature of Fire			<ul style="list-style-type: none"> ●E-ESS3-2 ●E-ESS3-4
6 Forest to Faucet		<input type="checkbox"/> E-ESS2-5	<ul style="list-style-type: none"> ●E-ESS3-1 ●E-ESS3-2 ●E-ESS3-3 ●E-ESS3-6
7 Forest Invaders		●E-ESS2-7	●E-ESS3-3
8 Climate Change and Forests		<ul style="list-style-type: none"> ●E-ESS2-4 ●E-ESS2-6 	<ul style="list-style-type: none"> ●E-ESS3-3 ●E-ESS3-4 ●E-ESS3-5

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		●E-ESS2-7	●E-ESS3-6 ●E-ESS3-7
9 Words to Live By			

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