



Kentucky Department of
E D U C A T I O N

Science Standards Subcommittee Meeting

Date: March 17, 2022

Time: 9:00 a.m. -3:01 p.m. ET

Location: https://air-org.zoom.us/meeting/register/tJMkf-ivqzItHdN6bvee0yZDW_z9Ov7ae_aQ

Meeting Purpose:	Review, revise, and develop the Kentucky Academic Standards for Science in accordance with Kentucky Revised Statute (KRS) 158.6453.
Meeting Called by:	Bridina Lemmer
Members:	<p>Present:</p> <p>APs: Hallie Booth, Amanda Staggs, Catherine Sammons, Jeanine Huss, Jillian Booth, Robert Boram, Stephanie Parrot</p> <p>RC: None</p> <p>KDE Staff: Thomas Clouse, Rae McEntyre</p> <p>AIR Staff: Bridina Lemmer, Leslie Dahl, Doug Paulson</p> <p>Public Observers:</p>

Time	Focus	Lead	Discussion
9:00-9:15	Call to Order, Roll Call, Meeting Agenda	Bridina Lemmer	<p>Meeting Called to Order: 9:03 ET</p> <p>Roll Call:</p> <p><i>Elementary</i></p> <p>Stephanie Parrot, Jillian Booth, Jeanine Huss* <i>joined at 9:25</i></p> <p><i>Middle School</i></p> <p>Hallie Booth, Amanda Staggs, Robert Boram* <i>joined at 9:15</i></p> <p><i>High School</i></p> <p>Cathy Sammons</p> <p>Motion to approve agenda: Cathy Sammons</p> <p><i>Seconded: Jillian Booth</i></p>

Time	Focus	Lead	Discussion
9:15-10:50	Review of Life Science core idea Progression	Bridina Lemmer	<p>Working group members continued their review of the progression of Life Science core ideas from Kindergarten through High School and made recommended revisions to standards based on the following questions:</p> <ol style="list-style-type: none"> a. Do the ideas progress coherently and get students to where the framework and current research says they need to be? b. Are there any ideas or elements that are "missing" or gaps along the way? c. Are there any ideas or elements that are "extra" or not needed? d. Are there any ideas or elements that can be combined? e. Are there any ideas or elements that should be moved to a different grade level? <p>The working group discussed LS2.D at length and whether this core idea is essential to ensure students exit high school as “critically educated consumers of science” in alignment with the vision guiding this work and whether visiting this core idea once in 3rd grade and once in high school is sufficient to develop student understanding.</p> <p>The group decided that yes, the idea is essential, and should be revisited in middle school. Ultimately, the working group considered implied connections to several existing middle school standards but saw a direct connection to 8-LS2-4 and is recommending making that connection more explicit by adding a linking core idea from the <i>K-12 Framework</i>.</p>
10:50-11:00	Break		
11:00-12:00	Review of Earth and Space Science Progression	Bridina Lemmer	<p>Working group members began their review of the progression of Earth and Space Science core ideas from Kindergarten through High School and made recommended revisions to standards based on the following questions:</p> <ol style="list-style-type: none"> a. Do the ideas progress coherently and get students to where the framework and current research says they need to be?

Time	Focus	Lead	Discussion
			<ul style="list-style-type: none"> b. Are there any ideas or elements that are "missing" or gaps along the way? c. Are there any ideas or elements that are "extra" or not needed? d. Are there any ideas or elements that can be combined? e. Are there any ideas or elements that should be moved to a different grade level? <p>The working group noted that at High School, some of the core ideas are addressed by multiple standards. They requested an easier visual layout of the standards and dimension connections for review after lunch.</p>
12:00-1:00	Lunch		
1:00-3:01	Review of Life Science core idea Progression	Bridina Lemmer	<p>Working group members continued their review of the progression of Earth and Space Science core ideas from Kindergarten through High School and made recommended revisions to standards based on the following questions:</p> <ul style="list-style-type: none"> f. Do the ideas progress coherently and get students to where the framework and current research says they need to be? g. Are there any ideas or elements that are "missing" or gaps along the way? h. Are there any ideas or elements that are "extra" or not needed? i. Are there any ideas or elements that can be combined? j. Are there any ideas or elements that should be moved to a different grade level? <p>The working group recommend no changes to the Life Science as both of these PEs are essential for students to develop their progression.</p> <p>While reviewing the progression of ideas related to ESS2.E, the working group noted some apparent gaps, particularly at middle school.</p>

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			<p>The working group noted that standard 3-ESS3-1 and 4-ESS3-2 address the same ESS3.B Disciplinary Core idea, HOWEVER, they are also both embedded engineering standards that address different dimensions of engineering.</p> <p>The working group noted a gap in ESS3.D as these core ideas are not touched upon until 8th grade, however within the Framework itself there are no early elementary grade band endpoints and much of the core idea relies on students having a strong foundational understanding of the Earth as a series of interacting systems, which is not addressed until grade 5.</p> <p>The working group completed their review of Physical Science, Life Science, and Earth and Space Science and will begin reviewing ETS standards to prepare something for Dr. Robinsons feedback at the next meeting.</p> <p><i>Motion to adjourn: Robert Boram</i> <i>Seconded: Hallie Booth</i> <i>Meeting adjourned: 3:01 p.m. ET</i></p>