Grade K **Unit:** Sunlight & Weather [Hands-On Investigation Video Playlist]

Lesson	Activity	@Home Lesson	Activity Description	Suggested Modality	Reasoning	Teacher/Student Provided Materials	Consumable Materials	Non-Consumable Materials	LAUSD Replacement Materials
1.2	1,3	2	Act. 1- Students observe and describe the weather outside of school. Act. 3- Students are introduced to and use thermometers to measure the temperature of warm and cold cups.	hands-on	This lesson uses warm water and needs to be supervised. Students will need a cup of warm water, a cup of ice water, a thermometer, and crayons to measure the temperature of the water in each cup.		2 cups per student	Color changing thermometers (the kit provides 18- need enough for each student)	1 color changing thermometer per student, 2 cups per student
2.1	2,4	4	Act. 2- Students examine the Warming Model setup and begin the investigation. Act. 4- Students record the temperature of the rubber/foam and discuss their predictions and their findings with a partner.	watch video	This hands-on involves a heat lamp. The setup is for students to rotate through stations to observe the models which would not be possible at home.				
2.2	3	4 & 5	Students learn to measure the temperature of the surface of their school playground.	hands-on	Students will use our thermometers to take the temperature of the surface of our playground. We can use the real world data we collect about our playground temperature to see if it matches what we observed in our Warming Model.			thermometers	thermometers
2.2	3	4 & 5	@ Home version uses heat lamp	watch video	Teacher uses a heat lamp and students observe the reaction.				
2.3	2	5	Students go outside to measure the temperature of a surface in sunlight and shade.	hands-on	Students can go outside and observe sunny and shady areas. Students need a thermometer, crayons, and Sheets.	crayons		thermometers	thermometers
3.1	4	7	Students gather temperature data from their Warming Over Time models. The students are measuring the temperature "foam/rubber sandwich" after 3 minutes.	watch video	This hands-on involves a heat lamp. The setup is for students to rotate through stations to observe the models.				
4.1	4	10	Students gather temperature data from the Colored Surfaces Model.	watch video	This hands-on involves a heat lamp. The setup is for students to rotate through stations to observe the models.				
4.2	3	10 & 11	Students make predictions about and feel the temperatures of dark and pale surfaces outdoors.	hands-on	All students need is the use of their hands, paper(sheets), pencil. Students place their palm flat on one part of the surface, pause, then move it to the the other part. Students are encouraged to feel each part several times to be sure about any differences. In certain conditions, some kinds of dark surfaces (such as asphalt) can be dangerously hot to the touch. If you are teaching this lesson on a very hot day, make sure the dark surface you choose is one that will not get too hot.	pencils			
5.2	3	14	Act. 3- Students sprinkle water over their models to test them, and record the observed water levels.	watch video	A utility knife and super glue are needed for this activity. So it is recommended that the teacher models this lesson through videos.				