

Blended Learning Instructional Framework: Whole Group Instructional Plan

Lesson/ Topic	Learning Target <i>Learning targets are short term, student-friendly statements that clearly define what students should know and be able to do at the end of the lesson.</i>	Activities, Instruction & Modeling <i>What do you need to explain, present, facilitate, or model? What instructional strategies will you use? What will students do to understand concepts or practice skills (practice, discussion, reflection, creation)? Synchronous learning refers to a learning event in which a group of students are engaging in learning at the same time. Asynchronous learning is instruction and learning that does not occur in the same place or at the same time – usually independent.</i>		Formative Assessment / Exit Slip <i>How will students demonstrate their daily learning? How will you know if they understand concepts or can apply skills? Please provide links.</i>	Due Date
		Science Synchronous/Live Instruction	Asynchronous Playlist		
Lesson 1	Observe how to stay safe while in school during the Covid19 Coronavirus pandemic. Ask Question: How does someone contract Covid-19 Corona virus?	I will ask the students what do they know about the Coronavirus? We will have a brief discussion about the virus and why it is a pandemic. We will watch the Nearpod video lesson, “What is Covid-19?” https://share.nearpod.com/kLu284qsMab After the video we will try to come up with others ways to stay safe and not spread the virus to your family friends and people we don’t know. As the students share ideas we will watch and second Nearpod video about washing hands and wearing a mask to keep us safe. Washing hands https://share.nearpod.com/Cr0SfGSsMab Why masks work https://share.nearpod.com/I8dS49USo8	Nearpod— Social Distancing https://share.nearpod.com/pb8Ehp9sMab Students will write letters to their family and friends sharing how they can stay safe.	Wrap It Up! What are three ways to stay safe during the pandemic? What is Covid-19?	10/26
Lesson 2	Observe how then energy of objects react when they collide with other objects Ask Question: What happens to that energy when two things collide?	I will share with the students that objects in motion have energy. Next I will ask what do they think happens to the energy when the objects collide with another object? We have been discussing energy and we will actually experiment what happens when objects collide. We will observe what happens when marbles and toy cars. I will demonstrate with marbles what would happen when they are in motion. Then I will share what happens when marbles collide with other marbles. I will share a short video with student that will show the marbles in action. https://youtu.be/IKMKOzMwi-8 Students will be able to see others students experimenting with the marbles and measuring what happens to the marble’s energy when it collides with another marble. I will share a second video with students observing what happens when marbles collide with other marbles. https://youtu.be/GmK4Rwg6SLs After demonstrations students will write in their own words what happened. They will explain how the “target” marble was mobilized when it collided with the “shooter” marble. Review and discuss Edpuzzle:--- https://youtu.be/q5_6jwFhOFs Colliding Objects	Edpuzzle:--- https://youtu.be/q5_6jwFhOFs Colliding Objects Students will write in their notebooks what happens when marbles collide.	Wrap It Up! What happens when marbles collide? Does the collision change the motion of the marbles? How? What can you tell about the energy?	10/27
Lesson 3	A moving object transfers energy when it comes in contact with another object. Ask Question: Do moving objects have energy? Why? Why not?	I will have students put their hands together and rub them back and forth. This shows the students how energy is being transferred between the hands (moving objects), creating sound and heat energy. Then I’ll show a video of a tennis racket hitting a tennis ball in slow motion. https://youtu.be/VHV1YbeznCo (Slow motion racket and ball video) Explain to students that they have been exploring what happens to objects when they collide. They will be observing the motion of the objects before and after collision, and thinking about energy. I will now show the following video Generation Genius--Collisions https://www.generationgenius.com/videolessons/collisions-video-for-kids/	Generation Genius--Collisions https://www.generationgenius.com/videolessons/collisions-video-for-kids/ Write five statements that you learned from the video.	Wrap It Up! What gets transferred during a collision? If an object moves faster, does it transfer more or less energy? What if it gets heavier?	10/28
Lesson 4	There are different types of energy that we use and need every day. Ask Question: What are the different	As we continue to explore energy we will learn about the different types of energy. I will ask the students: What do they know about the types of energy that exist in our world? I will have them think about the things that use energy as how they use energy themselves. While they are thinking I will add their responses on the board. I will then share with them the different types of energy that we have in the world. There are two main types of Energy: Kinetic and Potential. I will show the following video. https://youtu.be/Dqkg6WMkpoA Types of Energy. There are other forms	Edpuzzle Activity Types of Energy https://youtu.be/IqV5L66EP2E	Wrap It Up! What are the two main types of energy?	10/29

	types of energy?	of energy called: Solar, Electrical, Sound, Chemical, Light, and Thermal energy. We will revisit the list that we started at the beginning of the lesson. We will check the list and see if we can add or remove some items after we've learned a little more about energy.	Write five statements that you learned from the video.		
Lesson 5	Energy Quiz	Students will review their knowledge of the different types of energy and what energy is. Students will watch and discuss a Nearpod video lesson about the principles of energy. Sustainable Energy https://share.nearpod.com/eN9UBeotMab After a brief discussion about energy the students will take a test about what they have learned about energy.	Nearpod Activity https://share.nearpod.com/vsph/DPkvtsvCMu Renewable and Nonrenewable	Wrap It Up! What are some uses of energy?	10/30