Name _____

4th Grade Science Remote Learning Packet

Week 21

Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

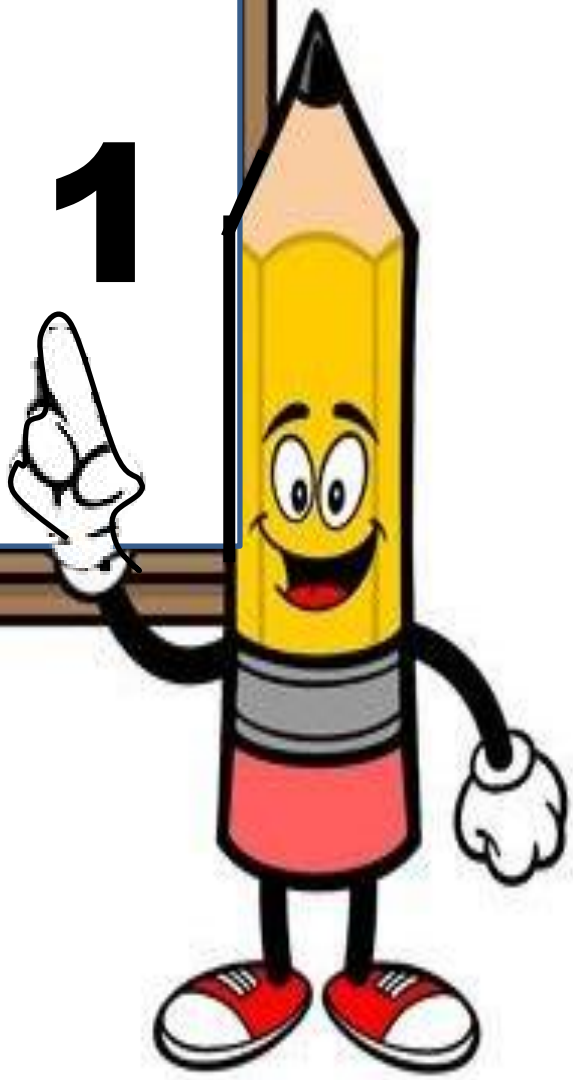
_____ _____

(Parent Signature) (Date)

Parents please note that all academic packets are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.

Brighter Choice
Charter School for Boys

Day # 1



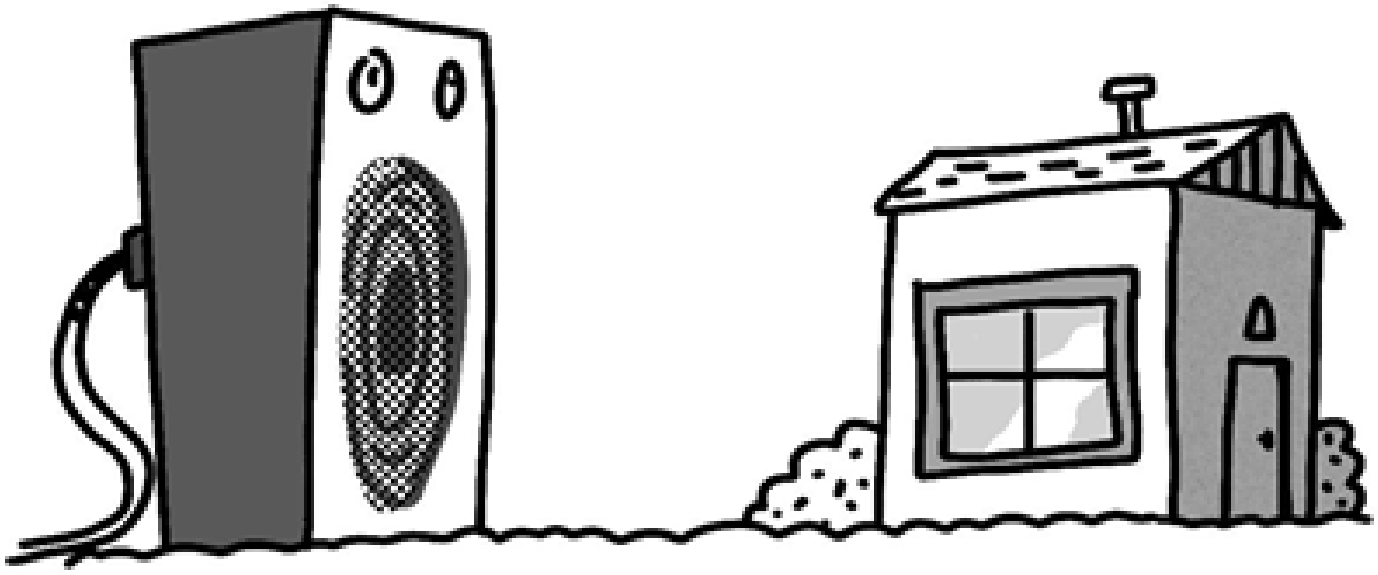
Name: _____Week 21 Day 1 Date: _____

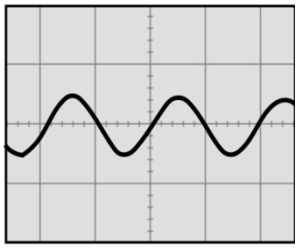
BCCS-B **Howard** **Morehouse** **Hampton**

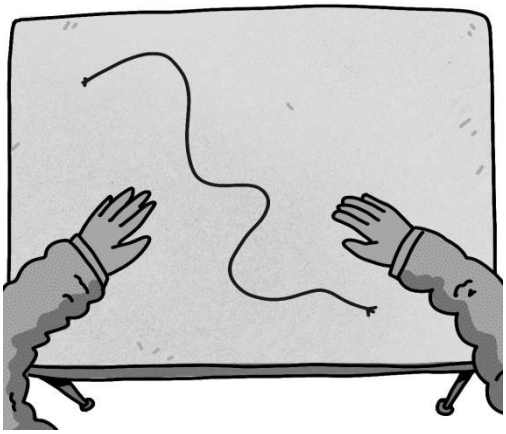
Unit Assessment

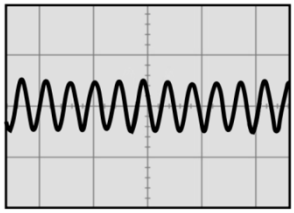
1. Isaiah has built a giant speaker so that he can play music really loudly. He has set the speaker right outside his neighbor's house. Draw arrows and add words to the image below to show a model of what will happen to the glass window of the house when Isaiah starts playing music using the large speaker.

Hint: You can add "air blobs" to your model if that helps..



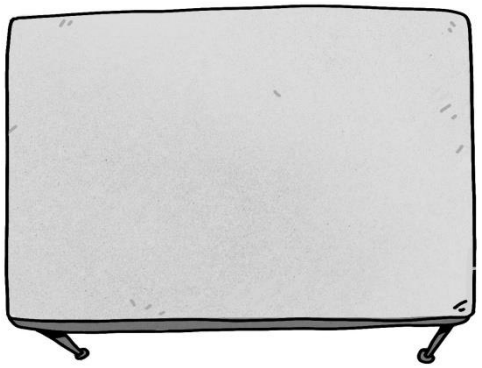




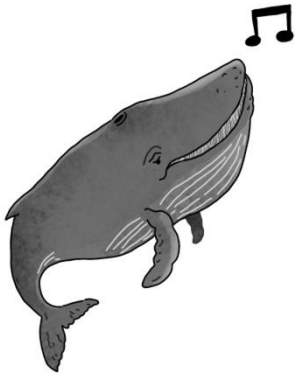


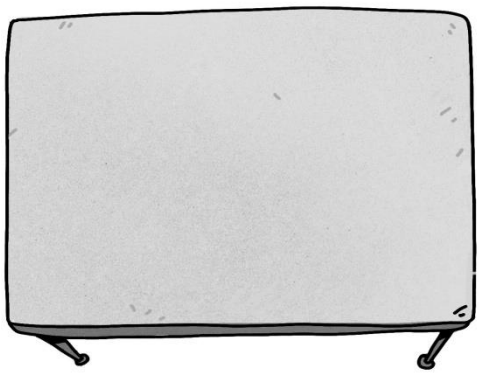
You recently learned about the wavelengths of sound waves. You've learned that different sounds have different wavelengths. For example, a tuba makes a low sound that has a long wavelength, but a flute makes a high sound that has a short wavelength. Pretend your teacher has given you a long piece of string and asked you to use it to model what sound waves look like. You can lay the string on your desk and bend it to make different wave shapes.

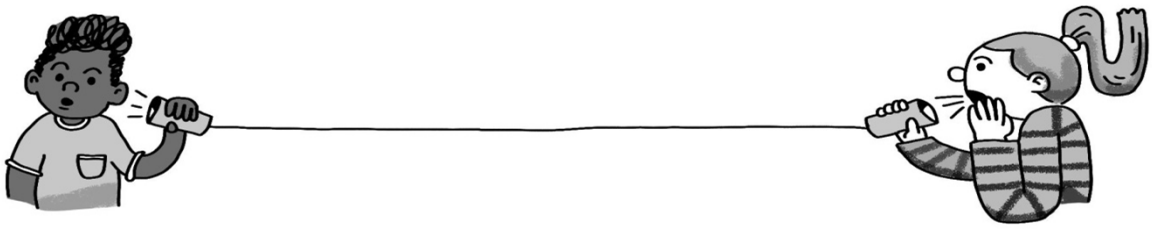
2. Imagine your teacher plays the high-pitched sound of a bird singing. Draw what the string on your desk should look like when you use it to create a model for the sound waves of the bird song.



3. Imagine your teacher plays the low-pitched sound of a whale singing. Draw what the string on your desk should look like when you use it to create a model for the sound waves of the whale song.







4. Mateo and Ava want to compare the solutions that you came up with to see which one will work better. Using the two solutions that you generated above, how could Ava and Mateo test these solutions to compare them and see which one works the best? Choose the best answer.

a. Ava sends a message using Solution 1 that instructs Mateo to sit down. Mateo hears the sound pattern and sits down. This is evidence that Solution 1 is better than Solution 2.
b. Ava sends a message using Solution 2 that instructs Mateo to stand on one foot. Mateo hears the sound pattern and stands on one foot. This is evidence that Solution 2 is better than Solution 1.
c. Ava sends a message using Solution 1 that instructs Mateo to sit down. Mateo hears the sound and sits down. Ava then sends a message using Solution 2 that instructs Mateo to stand on one foot. Mateo doesn't stand on one foot. This is evidence that Solution 1 is better than Solution 2.
d. Ava sends a message using Solution 1 that instructs Mateo to sit down. Mateo hears the sound and sits down. Ava then sends a message using Solution 2 that instructs Mateo to stand on one foot. Mateo doesn't stand on one foot. This is evidence that Solution 2 is better than Solution 1.

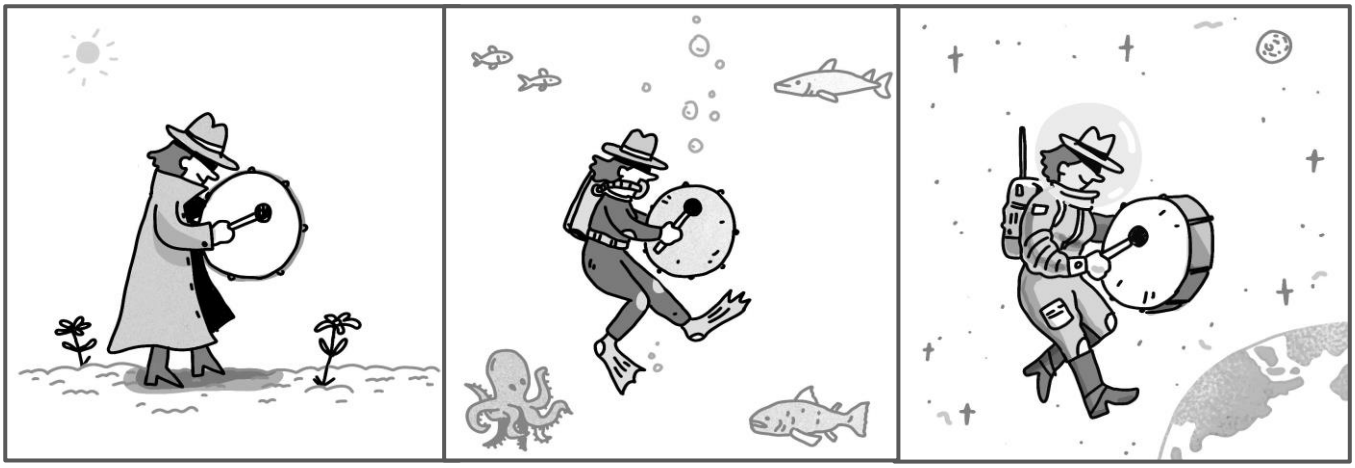
5. Leketa is a secret agent. She needs to send secret messages to her partner, Daniel. Leketa uses the sound waves from the beat of a drum to send her messages. Leketa and Daniel create a secret code using a pattern of drum beats to communicate with one another.

Here's their secret code:

BAM-BAM-BAM	means "Danger!"
BAM-BAM	means "Mission Accomplished!"
BAM	means "Send Help!"

Leketa bangs on her drum from three different locations: standing on the Earth, swimming under the water, and floating in outer space.

Standing on the Earth | Swimming Under the Water | Floating in Outer Space



In which of the following places would using a drum work to send her secret messages?

a. The drum will work on Earth, under the water, and in outer space.
b. The drum will work on Earth and under the water. The drum will not work in outer space.
c. The drum will work on Earth and in outer space. The drum will not work under the water.
d. The drum will work under the water and in outer space. The drum will not work on Earth.

Scholars, see the handouts that are attached.

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Day # 4

Name: _____Week 21 Day 4 Date: _____

BCCS-B **Howard** **Morehouse** **Hampton**

Earth's Movement in Space and Planet Earth Guided Notes & Exit Tickets

Day 1:

The Question: *Answer the following question.*

What is the difference between revolution and rotation? _____
_____
_____

Rotation and Revolution of Earth Video: *As you watch the video, fill in the blanks or answer the questions.*

1. What is unique about our Earth according to the video? _____
   _____
2. How does the Earth move? _____
3. Rotation is the movement of the Earth on its own _____.
4. How long does it take to make one rotation? _____
5. The journey the Earth takes around the sun is called _____.
6. How long does it take the Earth to take a complete revolution around the sun? _____
   _____
7. Which movement of the Earth brings us the seasons? _____

Earths' Tilt Video: *As you watch the video, fill in the blanks or answer the questions.*

1. How can it be summer in America and winter in Australia? _____
   _____
   _____
2. What is the Earth's tilt? It's angle? __23.5 degrees_____
3. Does the Earth's tilt change as the earth revolves around the sun? _____
4. How would you describe the sun's rays as it hits the earth when America's season is summer? _____
   _____
   Winter? _____
   _____

Vocabulary: *Fill in the blanks with the red word.*

1. **Axis:** an _____ that runs through Earth's center from its North Pole to its South Pole
2. **Rotate:** to _____ on an _____
3. **Sunrise:** the _____ when the _____ appears to _____ over the horizon
4. **Sunset:** the _____ when the _____ appears to _____ below the horizon
5. **Horizon:** the _____ where the sky and Earth's surface seem to _____
6. **Equator:** an _____ that _____ Earth half horizontally
7. **Hemisphere:** one _____ of _____
8. **Revolve:** to _____ in a path _____ object; Earth revolves around the sun
9. **Orbit:** the _____ of an object in space _____

EXIT TICKET: *Your exit ticket found on pages 93 and 96-97 in our Coach book. Use your RISE strategy in order to answer the questions.*