



# Science Learning Packet

## **Grade 4, Week 1:**

### **Waves, Energy, & Information**

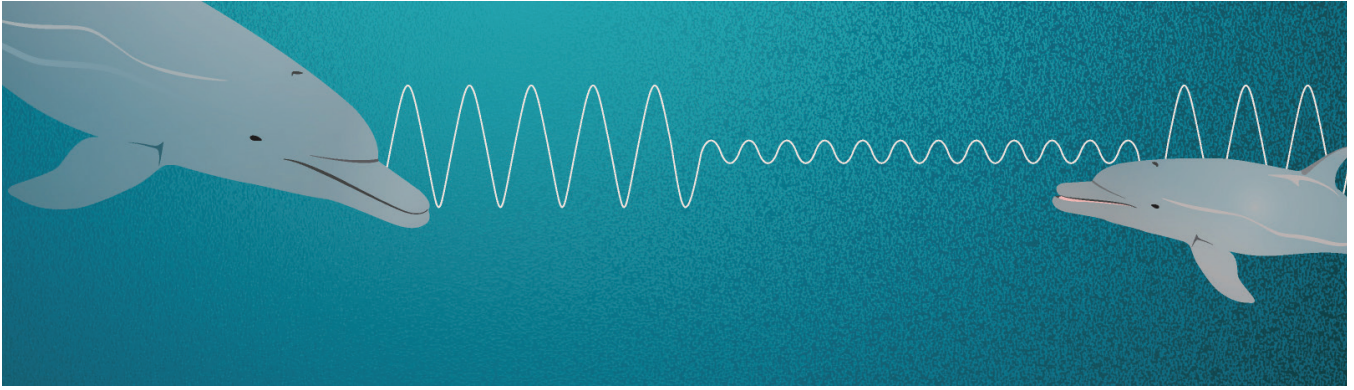
Suggested science learning activities for SPS students during the COVID-19 school closure.

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Due to the COVID-19 closure, teachers were asked to provide packets of home activities. This is not intended to take the place of regular classroom instruction but will help supplement student learning and provide opportunities for student learning while they are absent from school. Assignments are not required or graded. Because of the unprecedented nature of this health crisis and the District's swift closure, some home activities may not be accessible.

If you have difficulty accessing the material or have any questions, please contact your student's teacher.



## **Waves, Energy, and Information:**

Investigating How Dolphins Communicate

**Grade 4 - Lessons 1.1 and 1.2**

Accompanying Videos and Books can be found at:  
[tinyurl.com/SciLessons](https://tinyurl.com/SciLessons)

Other Amplify resources can be found at:  
[amplify.com/remoteteaching/Science/resources](https://amplify.com/remoteteaching/Science/resources)



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Ideas About Dolphin Communication

1. What do you notice about the dolphin calls?
2. Record your observations.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

## **Think-Draw-Pair-Share: What Do You Know About Waves?**

1. Think about the question *What do you know about waves?*
2. Make a drawing on paper (or use a drawing program) to explain your ideas.
3. Label your drawing, then take a photo of it (or save it) and upload.
4. Click the box below to attach your drawing.
5. Use your drawing to discuss your ideas with another person.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Making Waves with a Rope

1. Two group members kneel on the floor on opposite ends of the rope and stretch the rope all the way out so it is straight.
2. One group member holds an end of the rope on the floor. The other group member repeatedly lifts the other end of the rope up and then flicks her wrist down to make even, steady wave patterns in the rope.
3. Group members who are not holding the rope should record their observations on the lines below.
4. Group members holding the rope switch roles with group members recording observations.

Describe the motion of the rope.

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Make a drawing if it helps you explain your thinking. Label your drawing and attach it in the box below.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Making Waves with a Spring Toy

1. Two group members kneel on the floor on opposite ends of the spring toy and stretch the spring toy almost all the way out along the floor.
2. One group member holds an end of the spring toy steady, and the other group member pushes the other end of the spring toy forward (toward the other group member). Leave the spring toy on the floor and keep holding on to the ends.
3. Wait until the spring toy has stopped moving before pushing it again. Focus on pushing the spring toy forward rather than moving it side to side.
4. Group members who are not holding the spring toy should record their observations on the lines below.
5. Group members holding the spring toy switch roles with group members recording observations.

Describe the motion of the spring toy.

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Make a drawing if it helps you explain your thinking. Label your drawing and attach it in the box below.