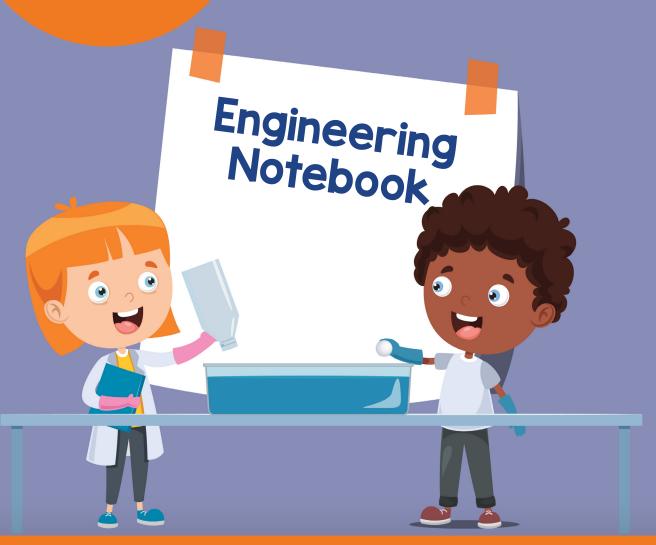




DIY Hydrophone

Grades K-2

Student Activity Workbook



Naval STEM-in-a-Box Series







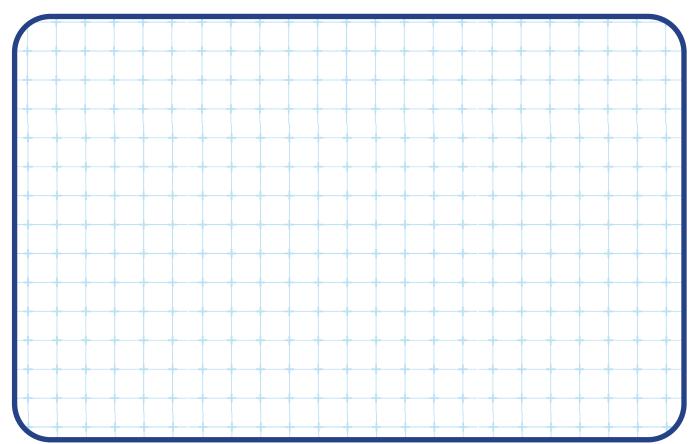
DIY Hydrophone

Before starting your experiment, draw your DIY hydrophone and how you have placed the hydrophone in the water.



Fun Fact!

Sonar is used to identify, track, and navigate safely in the ocean. With advances in technology, newer-generation submarines are extremely quiet and hard to detect in the noisy ocean environment due to new technology in engineering design.



Fun Fact!

The DDG 1000 is one of the newest naval fleets! Its sleek shape is not only cool to look at but purposefully designed this way! The composite superstructure significantly reduces radar cross section and other signatures, making the ship harder to detect by enemies at sea.

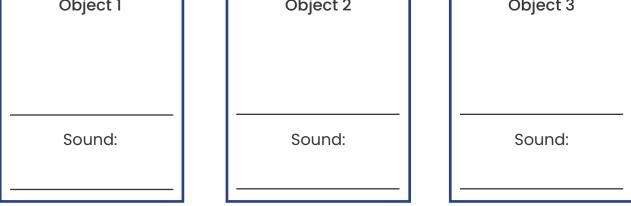


Inside each box, <u>draw</u> and <u>label</u> what objects you tested with your hydrophone. Under sound, use the text box below and <u>describe</u> the sound you heard when the object hit the bottom of the container.

Object 1

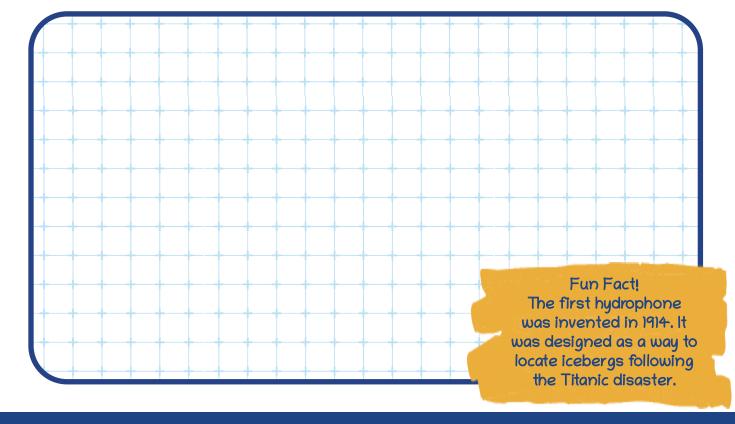
Object 2

Object 3



Text Box:
Soft Quiet Loud Gentle Silent
High Low Explosive Faint Sharp

Listen to the sounds being made when objects are dropped. How do you think sound waves move in the water and through the hydrophone? In the box below, sketch you listening to the sounds in the water. Then draw how you think the sound waves travel to your ear.



DIY Hydrophone Engineering Notebook



Naval STEM-in-a-Box Series

