**Sound Stations**

What are the properties or characteristics of a mechanical wave?

Today you and your group are going to investigate sound. The question you are trying to answer is this: **Is sound a mechanical wave?**

Think about the things we identified that all mechanical waves have. You must find evidence (examples of sound doing (or not doing) or causing) for these things!

There will be six stations. At each station follow the instructions on the task card.

Write down observations. What happened at this station?

In the second column, write down anything that you think is evidence (or counter evidence) of sound behaving as a mechanical wave.

|  |  |
| --- | --- |
| **Station 1 - Observations** | **Evidence/Counter Evidence:** |
| **Station 2 - Observations** | **Evidence/Counter Evidence:** |
| **Station 3 - Observations** | **Evidence/Counter Evidence:** |
| **Station 4 - Observations** | **Evidence/Counter Evidence:** |
| **Station 5 - Observations** | **Evidence/Counter Evidence:** |
| **Station 6 - Observations** | **Evidence/Counter Evidence** |

Conclusion:

Did you find evidence (or counter evidence) for each wave property?

If not, you might try doing a little research on sound to fill in the holes.

After your investigation, do believe sound is a mechanical wave? Why or why not?