Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_

**Day 1**  **Sound Waves through Different Mediums**

Today we will be watching several videos, having class discussions and reading a short article on vacuums. Using the information you have gathered, construct a claim supported by evidence responding to the question: Is a vacuum a medium?

Focus Question: Is a vacuum a medium?

Pre-activity question:

1. What is a medium?

2. What is a vacuum?

Video #1: Sound traveling through different mediums. <https://www.youtube.com/watch?v=Q3oItpVa9fs&feature=youtu.be>

|  |
| --- |
| Video evidence: |

Read the article Vacuum Reading

|  |
| --- |
| Article evidence: |

Video #2: How Long Could you Survive in Outer Space? <https://www.youtube.com/watch?v=RjkrqMm52JI&feature=youtu.be>

|  |
| --- |
| Video evidence: |

**Comprehension Questions: Answer using complete sentences and a restate.**

1. Draw a picture of a medium (related to sound) with a caption.

2. Draw a picture of a vacuum (related to sound) with a caption.

3. Define a mechanical wave.

Example

4. Define an electromagnetic wave.

Example

5. What happens when you’re exposed to the vacuum of space?

6. Using a piece of evidence to support your claim (include the source) answer the focus question: Is a vacuum a medium?