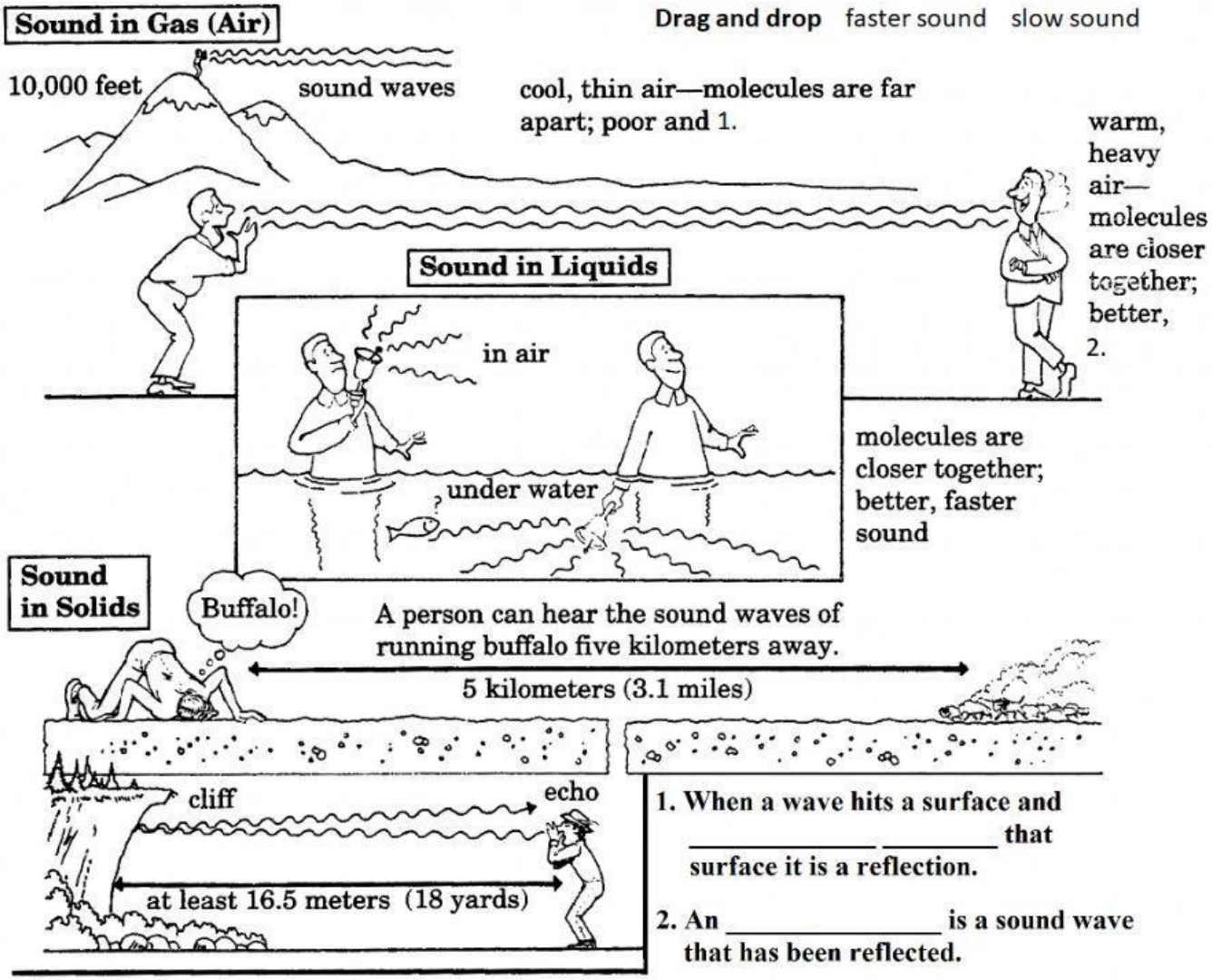
Sound and Materials

Sound waves travel best in materials when the molecules are close together.

Drag and drop faster sound slow sound



1. When a wave hits a surface and _____ _____ that surface it is a reflection.
2. An _____ is a sound wave that has been reflected.

3. Better and faster sound waves are carried by materials when their _____ are closer together.
4. A boy clicks two rocks together underwater. Two friends are two meters (6.56 feet) away. One has his head out of the water; the other has his head underwater. Which one can hear the clicking sound? **the one with is head out of the water the one with his head under the water**
5. In stories of the Old West, what did people do to find out if a train was coming soon? Why?
   People would listen **standing up put their ear on the track**. This is because sound travels faster in a **solid liquid gas.** This means the person listening through the **solid liquid gas** would hear the train first.
6. Why aren't sounds heard in a vacuum?
   Sound **is is not** a mechanical wave, which means it **needs does not need** a medium to travel.
7. **Through which medium would sound travel fastest, water, a steel bar, or nitrogen gas?**

LIVEWORKSHEETS