

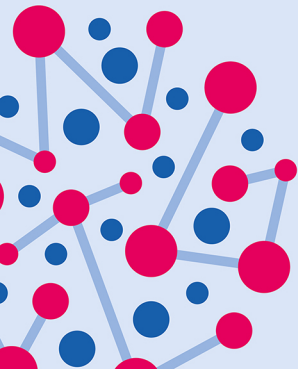
Shrieking balloons

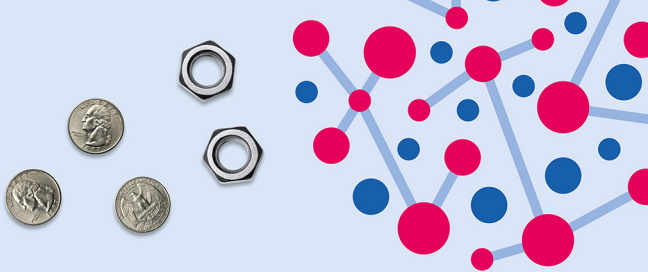
At-home science activity



You will need:

- Two balloons
- Small coin
- Small hexagonal nut



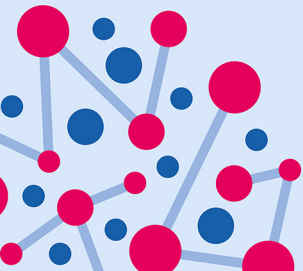


1. Place the coin inside a balloon, inflate and tie.
2. Place the hexagonal nut inside a second balloon, inflate and tie.
3. Hold the balloon (with the coin inside) tightly with the palm of your hand flat over the tied end.

4. Swirl the balloon quickly, so the penny spins around the inside of the balloon. No sound will be made.

5. Repeat this with the balloon containing the hexagonal nut. The balloon should begin to shriek.

6. Why are the results different? Swipe to find out...



- The coin is smooth, so it doesn't vibrate against the inside wall of the balloon.
- The sides of the hexagonal nut, however, rub against the balloon to create vibrations and sound.
- The faster the nut spins, the more vibrations it produces in the balloon. These vibrations create the sound waves.
- The number of vibrations each second is known as the frequency of vibration, and it affects the pitch produced.
- Higher frequency = higher pitch of sound.