



# Sound Smarter

Name: \_\_\_\_\_

## worksheet

Highlight the correct answer for each question.

Sound travels...	<ul style="list-style-type: none"><li>a. In one direction</li><li>b. In all directions</li><li>c. Up from where it starts</li><li>d. Down from where it starts</li></ul>
Smooth sounds are made by...	<ul style="list-style-type: none"><li>a. Simple vibrations</li><li>b. No vibrations</li><li>c. Many different vibrations</li><li>d. Complicated vibrations</li></ul>
The lowest note on the flute is...	<ul style="list-style-type: none"><li>a. Top C</li><li>b. D</li><li>c. Middle C</li><li>d. A</li></ul>
On a real flute the pipe is made shorter by	<ul style="list-style-type: none"><li>a. Chopping off bits of the instrument</li><li>b. Putting more fingers down on the keys to cover more holes</li><li>c. By blowing harder</li><li>d. Taking fingers off the keys to uncover more holes</li></ul>
The next higher C from middle C on the flute vibrates at about...	<ul style="list-style-type: none"><li>a. 250 times per second</li><li>b. 50 times per second</li><li>c. 25 times per second</li><li>d. 500 times per second</li></ul>
As you get older you are less able to hear	<ul style="list-style-type: none"><li>a. Middle pitched sounds</li><li>b. Middle C</li><li>c. Higher pitched sounds</li><li>d. Lower pitched sounds</li></ul>
Which of these is too high for human beings to hear?	<ul style="list-style-type: none"><li>a. 440Hz</li><li>b. 28,160Hz</li><li>c. 256Hz</li><li>d. 500Hz</li></ul>
Putting more energy into playing a sound makes it ...	<ul style="list-style-type: none"><li>a. Louder</li><li>b. Quieter</li><li>c. Stop</li><li>d. softer</li></ul>



# worksheet

Sound waves for noises...	<ul style="list-style-type: none"><li>a. have simple patterns</li><li>b. are twice as fast</li><li>c. have no pattern to them</li><li>d. have a basic repeating pattern to them</li></ul>
Faster vibrations make...	<ul style="list-style-type: none"><li>a. lower pitched sounds</li><li>b. longer sounds</li><li>c. shorter sounds</li><li>d. higher pitched sounds</li></ul>

How well did you do?

Save a copy of this on your computer to keep a record of what you have learnt.