





Your Sound Q and A Activity Sheet has 12 different questions about sound.
You will use your knowledge and understanding of sound to answer these
questions. But there is a twist!

You need to get a different person in your class to answer each question. They should write their answer in the box and sign their name or initials. Make sure you ask a different person for every question. Remember, other people will be asking you to answer questions on their sheet too!

Nove around the classroom finding	people to fill in the boxes. Use your I	nowledge and understanding of soun	d to help others complete the boxes
Q.  When playing a guitar, the shorter the string, the the sound is.	Q. Sound is caused by	Q.  Louder sounds are created by vibrations.	Q. Sound travels as a
A.	A	A	A.
Sounds travel from a sound source through each to our ears.	Q.  is a measure of how high or low a sound is.	Q.  If you hit a drum softly, it will make a sound.	Q.  A sound will seem quieter as you move away from its source.
λ.	A	A	A
Sound travels faster through a than it does through water or air.	Q. In order to stop sounds getting in or out of a room, you should the room.	Q. On a set of pan pipes, the longest pipe will make thesound.	Q.  We hear sounds with our
Α.	A	A	Α.



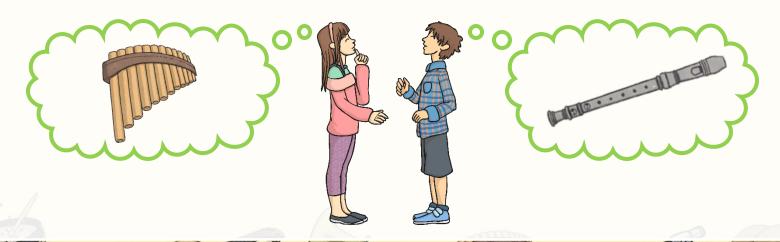
You have been learning all about sound.

Today, you are going to use your knowledge and understanding of sound, including pitch and loudness, to design and create your own musical instrument!

Your musical instrument should be able to make high, low, loud and quiet sounds.

You may use junk modelling items to create your musical instrument. It could be a string, wind or percussion instrument.

Talk to your partner about your first thoughts about this challenge.



## Making Music

Did you come up with some ideas?

Watch this clip to see a band called 'Weapons of Sound', who make all their instruments out of junk. Look carefully to see how they change the sounds their musical instruments make. Can you see anything that will help you make your own musical instrument?



Click on this image to play the video in a new window.















Use your Making Music Activity Sheet to design your musical instrument.

Look at the materials you have available, and decide how you will use them to bring your ideas to life. Make sure you plan how you will make your musical instrument play high, low, quiet and loud sounds.

Test and Evaluate	Making Music
Test your musical instrument out to see h	
Has it turned out how you expected?	
	Design and Create
How did you solve any problems you has	What will you use to make your musical instrument? Draw or write a list of things you will need.
	Draw a picture of how you think your musical instrument will look when it is finished. Label it to sho what each part will be made from and how it will work.
Can you explain how you can hear differ Refer to vibrations, particles and your ear	
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	How will you make high and low sounds on your musical instrument? Draw a picture or write about it.
	How will you make loud and quiet sounds on your musical instrument? Draw a picture or write about it

Test and Evaluate Test your musical instrument out to see how	Making Music
Has it turned out how you expected?	
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	How will you make loud and quiet sounds on your musical instrument? Draw a picture or write about it.













Now it's time to turn your plan into reality! Use your design to create your musical instrument.

While you make it, remember to try it out at regular intervals to make sure it works the way you want it to. If you come across any problems, think carefully to find a solution. Try different ideas if you need to.

Draw a picture of how you think your musical instrument will look when it is finished. Label it to show what each part will be made from and how it will work.



Once your musical instrument is complete, you need to test it out.

Show your partner how you play it and how you use it to make different sounds. Think about whether your musical instrument has turned out the way you planned it.

Complete the Evaluation section of your Making Music Activity Sheet, explaining how your musical instrument works.

Test and Evaluate  Test gour musical instrument out to see how well it works.  Has it is urned out now you expected?  If has turned out better than expected. I have done wery well in making the musical instrument with particular adjustments.  How did you solve any problems gus has while making it?  I managed to solve most of the problems through thinking a lot about what could go wrong beforehand. This way I planned things to try and avoid problems.  Can you cookin how you can hear different sounds from your musical instrument?  Refer to whentiers, pertiden and your eat at well as high, low, loud, and quiet sounds.  You may want to stick a photo of your musical instrument below	
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Show your musical instruments to the rest of your class, or another audience.

You have learnt a lot about sound, and you should be proud of how you have used this learning to create your own musical instruments that can change pitch and loudness.



Remember to applaud everybody's hard work!



