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

Internet Scavenger Hunt

SOUND

We hear sounds everywhere we go. How does the human ear detect sound? How is sound created? Do you know how sound travels? Why are some sounds loud, soft, high, or low? Can sounds damage hearing? There are ten questions below to teach you more about sound. Go to each website provided and hunt down the answers. Enjoy the interactive scavenger hunt on sound.

Go to the Website:

<http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel_pre_2011/waves/>

1. Describe sound waves. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. How do vibrations create sound and affect amplitude?

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Go to the Website:

<http://www.physicsclassroom.com/Class/waves/>

1. List at least 3 different categories of waves we encounter on a daily bases.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Explain how a slinky wave illustrates a sound wave. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Go to the website:

<http://kidshealth.org/Search01.jsp>

1. Interpret, in writing, how our ears process sound.

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Go To Website: <http://www.mhschool.com/science/2005/student/level2.php?isbn=0022812156&level1=F&level2=15>

1. Differentiate between loudness (amplitude) and pitch (frequency).

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Go to the website: <http://www.dangerousdecibels.org/virtualexhibit/>

1. Judge if listening to a hair drier for over 2 hours could damage your hearing. Why or Why not?

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1. Evaluate if you choose to wear ear plugs, even if someone tells you it’s not cool, when snowmobiling. Why or why not? What will you say to someone who tells you it’s not cool?

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Go to the website: <http://www.school-for-champions.com/science/sound_music.htm>

1. Design a string musical instrument reusing items around the house. Describe it below.

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1. Explain how your instrument creates sound to your classmates using the terms pitch and vibration.

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