

# Sound

Directions: Crack the code to reveal the message! Some letters have been given to you.  
Use the chart to keep track of the code. Not all letters of the alphabet will be used.

**Here's something you should know:**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
18		15				10					2	7				22				16	25				

V                      A                                      C A                                      A V      L                                      U G

25 14 9 12 18 5 14 24 4 11      15 18 4      5 12 18 25 1 2      5 23 12 24 16 10 23

                    L                                      L      Q U                                      A                                      G A

                    11 24 2 14 17 11                      2 14 22 16 14 17 11                      18 4 17                      10 18 11 1 11

                                    U                                      M                                      A C                                      .

                                    9 16 5                      4 24 5                      1 7 20 5 6                      11 20 18 15 1

Based on the secret message above, would you be able to hear a dog bark on the Moon? Why or why not?

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Directions: Arrange the tiles to form a sentences. The first tiles have been given to you.

**A few other things worth knowing about sound:**

1. H I G P I T R L H O I S O W C H

P I T

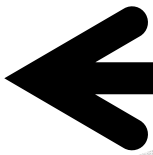
2. S O F O R U D T U M E V O L I S L O

V O L

3. C A N A N G M E E V O L U C E C H F O R

F O R

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Feel free to make copies of the puzzles to distribute to your students for review.

**Here's something you should know:**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
18	9	15	17	1		10	23	14			2	7	4	24	20	22	12	11	5	16	25			6	

VIBRATIONS CAN TRAVEL THROUGH  
 25 14 9 12 18 5 14 24 4 11 15 18 4 5 12 18 25 1 2 5 23 12 24 16 10 23  
 SOLIDS, LIQUIDS, AND GASES  
 11 24 2 14 17 11 2 14 22 16 14 17 11 18 4 17 10 18 11 1 11  
 BUT NOT EMPTY SPACE.  
 9 16 5 4 24 5 1 7 20 5 6 11 20 18 15 1

Based on the secret message above, would you be able to hear a dog bark on the Moon? Why or why not?

No, because there is no air on the Moon and sound cannot move through empty space.

**A few other things worth knowing about sound:**

1. HIGH PITCH R L H O I S OW CH

PITCH IS HIGH OR LOW

2. SOFT OR LOUD T VOLUME IS LO

VOLUME IS LOUD OR SOFT

3. CAN ANGLE ME EVOLUCE CH FOR

FORCE CAN CHANGE VOLUME