Map: The Quietest Place in New York

Environmental Science · Student worksheet

Name _____

Date _____

Period _____

How this works: Open The Quietest Place in New York (mrsajdak.com/maps/quiet). The colors show how loud each place is, in decibels (dBA). Click anywhere to read the sound level there.

I am learning to

- ☐ I can read sound levels from a map and use the decibel rule to compare them.
- ☐ I can explain what makes a place loud or quiet.

Part 1. Read the map

Analyzing and interpreting data

SEP 4

1. Click each place. Write its sound level.

Place	Sound level (dBA)
Buffalo	
The quietest place in the state (it is marked)	
A highway far from any city	
One you pick:	

2. The quietest place in New York is _____.

Part 2. Use the numbers

Using mathematics and computational thinking

SEP 5

The rule: Decibels do not work like most numbers. Every 10 dBA more means 10 times the sound energy. So 50 dBA carries 10 times the energy of 40 dBA.

3. A place at 60 dBA carries _____ times the sound energy of a place at 50 dBA.

4. A place at 60 dBA carries _____ times the sound energy of a place at 40 dBA.

Part 3. Cause and effect

Cause and effect

CCC 2

5. Look at where the loud colors are. Tick one box in each row.

Highways	☐ Makes a place louder	☐ Does not
Cities	☐ Makes a place louder	☐ Does not
Mountains far from roads	☐ Makes a place louder	☐ Does not
Airports	☐ Makes a place louder	☐ Does not

6. Why is the quietest place where it is? Start: It is quiet there because