

What Can My Deaf Dog Hear?

FIRST GRADE

Testable Question:

How do different sounds affect my deaf dog?

Prediction:

I think my dog may be able to hear louder sounds.

Procedure:

1. Select a sound to produce and gather any materials needed
2. Move 5 feet away from the dog
3. Produce the sound several times
4. Observe any behavioral changes or reactions (stop if seems harmful)

Background:

I chose this project because...

My dog is 14.5 years old and appears to be mostly, if not fully, deaf. We have trouble getting her attention and helping her.

In my research I found out that...

Dogs' bodies react differently to sound. Sometimes dogs tilt their head, turning to the sound, or tilting in curiosity. Some dogs move their ears up, down, back, forward, or cupped. Some sounds evoke a full body response such as coming towards the sound or person creating the sound, the opposite or going away from the sound, or simply not moving.

This project is important because...

It would be helpful to know what sound(s) my dog can possibly hear that are perhaps at a higher volume or frequency. This can help keep her safe and allow us to communicate with her again.

Constant Conditions:

Independent Variable: The ONE thing you change

The object producing the sound/frequency, pitch, volume

Dependent Variable: What you are measuring or observing

Response of the dog

Constant Conditions: What you are keeping the same every time

The distance away from the dog

Data and Trials:



Low note guitar; no response



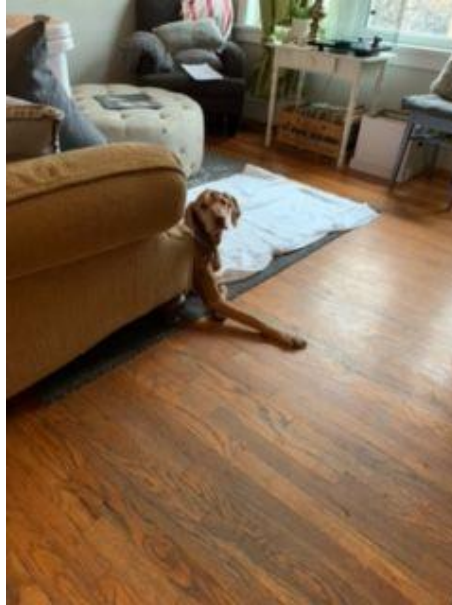
high note guitar; turned, looked, ears forward

Data and Trails Cont.



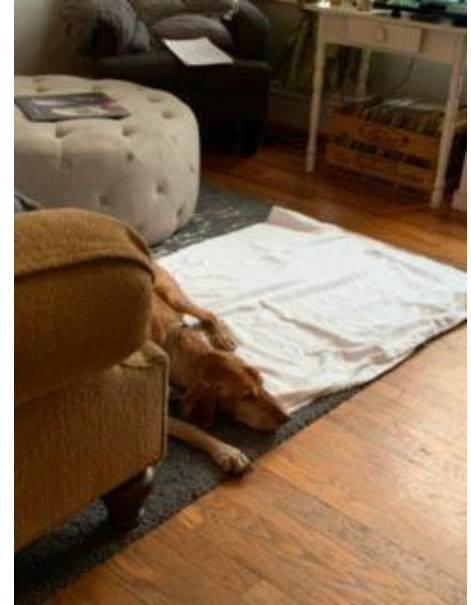
Co. of Animals whistle

No response



black whistle w/ pea

woke up, looked at sound



orange whistle

no response

Logbook

Date - March 07, 2022

I stayed safe by keeping 5 feet away from the dog during the experiment. I also had the dog's adult handler present.

Today I tested 7 objects/sounds with the dog.

I found out that the dog can hear high pitch guitar sounds and it made her look happy. She can also hear the black whistle with the pea inside.

I was surprised that she could hear different sounds

I wonder what affects her ability to hear

Now that I know she can hear the black whistle, I can use that to get her attention in the future.

In my research I learned about how dogs react to different sounds.

Logbook dated 03/07/2022

Sound	distance	response	details
trumpet	5 feet	Minimal response	Tail dropped, stopped walking, froze in place
Low guitar	5 feet	No response	Ignored, walked away
High guitar	5 feet	Immediately responded	Turned head and looked towards sound
Co. of animals whistle	5 feet	minimal response	lifted head
Black whistle	5 feet	responded	Woke up, looked at sound, walked to sound, ears forward
Orange whistle	5 feet	No response	Kept sleeping
Clicker	5 feet	No response	Kept sleeping

Conclusion and Reflection:

I found out that...

The dog can hear (reacts to/responds to) high pitch/frequency sounds. However, she can not hear most sounds especially those with low volume or low pitch/frequency

I was surprised that...

My dog could hear some of the sounds

If I did this project again...

Maybe I could test the sounds she could hear with other dogs to add new variables.

