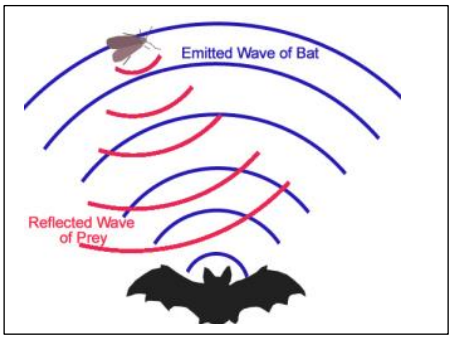
Sound – Section 3 – Music & Acoustics

Directions: ***Read pages 656-661 in red book. Write answers in complete sentences. Type it you want.***

1. Define music and noise
2. What instrument do you play (or would be interested in playing)? What vibrates on that instrument to create the sound?
3. Concert halls have wonderful acoustics. Name 3 reasons why concert halls have good acoustics. It might be helpful to look at photos of concert halls compared to a photo of Dorton Arena.
4. Concerts are held in Dorton Arena during the State Fair. Dorton Arena has terrible acoustics. Name three things about this arena that might cause it to have poor acoustics.
5. What causes "dead spots" in places where music is played?
6. What might cause the music to sound too loud and distorted?

Section 4 - How you Hear Sound & Hearing Loss--Read pages 662-667. Answer the questions in complete sentences.

7. Read all of pages 662-663. Describe why hearing is like a chain reaction.
8. Name the parts of the ear that vibrate.
9. Name 4 specific things that can cause hearing loss.
10. Explain two ways you can protect yourself from hearing loss.
11. Name two things that people can do to try and restore some of their hearing.
12. What is noise pollution?
13. Name three sources of noise pollution.



Section 5 – Using Sound – pages 668-671 (Answer in complete sentences!)

Read pages 668-671. Answer the following questions in complete sentences on notebook paper.

14. What is an ultra sound and name 3 animals that hear ultra sounds.
15. Explain how echolocation works.
16. Name 3 different animals that use echolocation and explain why they use echolocation.
17. What is sonar?
18. What do scientists use sonar for? Name 4 uses of sonar.
19. What is a sonogram?
20. Name 2 different ways that ultrasound imaging is used.

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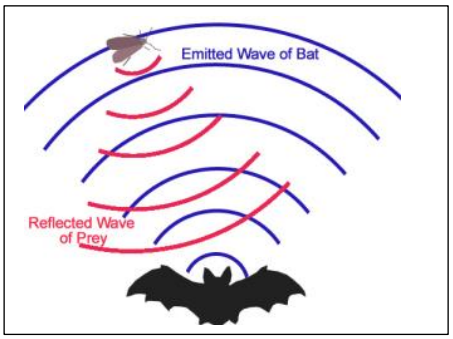

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