

Year 4 Science- Light and Sound Electricity- Tuesday



Today, you'll be carrying
out the experiment we
began planning
yesterday.

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Recap:

**What factors must you
keep the same and what
factor will change?**

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Keep the same:

- Song.
- Distance from music.
- Volume of music.
- Keeping rest of room silent

What will change?:

- Just the material!

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Results

Draw the following table in your book to record your results, and in the numbered boxes write down your materials/objects.

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Object	Description of impact on sound
1	
2	
3	
4	
5	

Firstly, listen to some music (keep using the same song!) without anything on your ears. Then, put one of the materials/ objects over your ears and note what changes in the description box.

Is it much quieter? Can you still hear the music fairly clearly? Is it comfortable on your ears?

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Object	Description of impact on sound		
1	Can't hear the music at all.	Not a great choice	5/10
2	Makes the music slightly quieter, very uncomfortable.	An okay option	6/10
3	Can still hear the music but it is quieter, very comfy!	A good choice	8/10
4	Can't really hear the music and very uncomfortable.	Poor choice	4/10
5	Can hear the music perfectly but not too loud, and comfy!	Perfect	10/10

Do this with the rest of your materials making notes for each material. Whilst your doing this, compare the materials and decide which material works best.

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Conclusion

Now is the time to sum up your results.

- Which material was the best and why?
- Which material was the worst and why?
- Were your predictions correct or not?
- What would you do differently if we repeated this experiment?