THE STRIVING

MUSLIM ACADEMY

Islamic and Academic Education

STAGE 4 · SCIENCE · SOUND

Sound

Everything the questions ask about is taught on the page before them, so nobody has to know the science beforehand.

WHAT IS INSIDE

- Where sound comes from
- How sound reaches you
- High and low, loud and quiet
- Try it yourself
- How each one is worked

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3 topics · something to do at the end

Written for a parent teaching at home. No training assumed, and nothing else to buy.

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High and low, loud and quiet

Read this first. Then answer the questions underneath.



Pitch is how high or low a sound is. A short, thin, tight string vibrates faster and gives a higher pitch. A long, thick, loose one vibrates slower and gives a lower pitch.

Volume is how loud a sound is, and it depends on how strong the vibration is. Pluck the same string harder and it moves further, so the sound is louder. The pitch does not change.

Sounds also get fainter as you move further from them, because the vibration spreads out as it travels.

1. What is pitch?

The first sentence.

2. What kind of string gives a higher pitch?

Three words describe it.

3. What does volume depend on?

Look for the word volume.

4. Why do sounds get fainter further away?

The last sentence.

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Quick check



One right answer each, and every answer is somewhere in this pack. Ring the letter.

1. **Where sound comes from What does vibrating mean?**
   (A) Air (B) How strong the vibration is (C) How high or low a sound is (D) Moving quickly back and forth

2. **High and low, loud and quiet What is pitch?**
   (A) How high or low a sound is (B) Air (C) Through water too, and through solids (D) Moving quickly back and forth

3. **High and low, loud and quiet What does volume depend on?**
   (A) How strong the vibration is (B) Something vibrating (C) Through water too, and through solids (D) How high or low a sound is

4. **Where sound comes from What is every sound made by?**
   (A) Moving quickly back and forth (B) A medium (C) How strong the vibration is (D) Something vibrating

5. **How sound reaches you What is the medium usually?**
   (A) Moving quickly back and forth (B) Air (C) Through water too, and through solids (D) Something vibrating

6. **High and low, loud and quiet What kind of string gives a higher pitch?**
   (A) Moving quickly back and forth (B) Something vibrating (C) How high or low a sound is (D) A short, thin, tight string

7. **How sound reaches you What is the something a vibration travels through called?**
   (A) A short, thin, tight string (B) Something vibrating (C) A medium (D) Through water too, and through solids

8. **How sound reaches you What else does sound travel through?**
   (A) Through water too, and through solids (B) How strong the vibration is (C) A medium (D) How high or low a sound is

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How each one is worked

The answers to the **work it out** questions are model answers. A child who says something different and can show you where on the page it came from has done the work.



WHERE SOUND COMES FROM

1. What is every sound made by?

1. The passage says every sound is made by something vibrating.
2. So that is the answer.

Answer: **Something vibrating**

2. What does vibrating mean?

1. The passage says vibrating means moving quickly back and forth.
2. So that is the answer.

Answer: **Moving quickly back and forth**

3. WORK IT OUT Why does a ringing cymbal go quiet when you put your hand on it?

1. Sound is made by something vibrating.
2. A hand on the cymbal stops it moving.
3. The passage says stop the vibration and the sound stops at once.

Answer: **Because the hand stops the vibration, and without vibration there is no sound**

HOW SOUND REACHES YOU

1. What is the something a vibration travels through called?

1. The passage says that something is called a medium.
2. So the answer is **a medium**.

Answer: **A medium**

2. What is the medium usually?

1. The passage says usually the medium is air.
2. So the answer is **air**.

Answer: **Air**

3. What else does sound travel through?

1. The passage says sound travels through water too, and through solids.
2. So that is the answer.

Answer: **Through water too, and through solids**

4. WORK IT OUT Why is there silence in space?

1. Sound needs a medium to travel through.
2. Space has no air.
3. So there is nothing for the vibration to travel through.

Answer: **Because there is no air, and sound cannot travel through nothing at all**

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SAMPLE PAGES

You have read a few pages. The pack is longer.

What you are holding is a short sample, taken from different parts of the pack so that you can see how a week is planned and what a child is actually asked to do, before you decide.

The complete pack, and the rest of the academic materials, are on our website: schemes of work for a parent teaching at home, and practice packs for the skills children get stuck on.

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Members of the homeschool community do not buy these. If you have joined the community, the pack for the term you are working on is given to you at no cost.

Our Islamic Education classes are free. These packs are part of what pays the teachers who teach them.