Sound and light

VOCABULARY PRACTICE

INTERMEDIATE | B1-B2

Name: _____ **Date:** _____

1 Match each sound or light term with its meaning.

1 pitch	____	a allowing some light through but not a clear image
2 volume	____	b bending of light as it enters a different material
3 vibration	____	c how high or low a sound seems
4 reflection	____	d allowing light to pass through clearly
5 refraction	____	e repeated back-and-forth movement
6 transparent	____	f not allowing light to pass through
7 translucent	____	g return of sound or light from a surface
8 opaque	____	h how loud or quiet a sound is

2 Complete the sound and light collocations.

absorb | **change** | **high** | **light** | **low** | **reflect** | **sound** | **transparent**

1 a _____-pitched voice

2 a _____ volume

3 _____ waves

4 _____ a sound

5 _____ light

6 a _____ material

7 _____ direction

8 visible _____

3 Correct one mistake in each sentence.

1 Pitch describes how loudly a sound is. _____

2 A transparent wall blocks all light. _____

3 Sound can travel through a complete vacuum. _____

4 A mirror absorbs most visible light. _____

5 Refraction means light returns from a surface. _____

6 An opaque object produces no shadow. _____

7 The faster an object vibrates, the lower the pitch. _____

8 Volume is measured as high or low. _____

Sound and light

VOCABULARY PRACTICE

INTERMEDIATE | B1-B2

4 Complete the experiment report with words from the box.

opaque | pitch | reflection | refraction | transparent | translucent | vibration | volume

A tuning fork produced a visible **1** _____. Striking it harder increased the **2** _____ but did not greatly change the **3** _____. In the light experiment, a mirror demonstrated **4** _____. A glass block caused **5** _____. Clear glass was **6** _____, frosted glass was **7** _____, and cardboard was **8** _____.

5 Read the text and answer the questions briefly.

How noise-cancelling headphones work

Headphones detect incoming background sound with microphones. Their electronics then generate a second sound wave with an opposite pattern. When the two waves meet, they partly cancel each other and reduce the unwanted noise. The method works especially well for steady, low-frequency sounds such as an engine hum, but sudden or irregular noises are harder to cancel completely.

1 What detects background sound? _____

2 What do the electronics generate? _____

3 How does the second wave differ? _____

4 What happens when the waves meet? _____

5 Which sounds are cancelled best? _____

6 Which sounds remain more difficult? _____

6 Rewrite using the word in capitals.

1 The glass lets light pass through clearly. **TRANSPARENT** _

2 The sound became louder. **VOLUME** _____

3 Light bent when it entered the water. **REFRACTED** _____

4 The note sounded higher. **PITCH** _____

OVER TO YOU

Write a **100-120 word** explanation of a simple sound or light experiment and its results.

[ ] Use at least ten target expressions. [ ] Explain cause and effect. [ ] Distinguish pitch from volume.

Sound and light

ANSWER KEY

1 Sound and light terms

1 **c** 2 **h** 3 **e** 4 **g** 5 **b** 6 **d** 7 **a** 8 **f**

2 Sound and light collocations

1 **high** 2 **low** 3 **sound** 4 **absorb** 5 **reflect** 6 **transparent** 7 **change** 8 **light**

3 Corrections

1 how **high or low** 2 transparent wall **passes light** 3 sound **cannot** travel through vacuum 4 mirror **reflects** light 5 Refraction means light **bends** 6 opaque object produces a shadow 7 faster vibration, **higher** pitch 8 Pitch is high or low

4 Experiment report

1 **vibration** 2 **volume** 3 **pitch** 4 **reflection** 5 **refraction** 6 **transparent** 7 **translucent** 8 **opaque**

5 Reading - suggested answers

1 Microphones. 2 A second sound wave. 3 It has the opposite pattern. 4 They partly cancel.
5 Steady low-frequency sounds. 6 Sudden or irregular noises.

6 Rewriting - possible answers

1 The glass is **transparent**. 2 The **volume** increased. 3 The light **refracted** in water. 4 The **pitch** rose.

Over to you: Answers will vary. Check physical vocabulary, mechanisms and clear results.