➢ Cara-cara untuk mengurangkan pencemaran bunyi:
Ways to reduce sound pollution:

- Menggunakan pelindung telinga.
  Use ear protectors.
- Menggunakan peralatan yang kurang menghasilkan bunyi.
  Use equipment which produces less noise.
- Membuat halangan bunyi di kawasan sumber bunyi seperti dinding atau pokok.
  Use sound barriers such as walls or trees.
- Menggunakan bahan kalis bunyi seperti permukaan yang lembut.
  Use soundproof materials such as soft surfaces.

Praktis/ Practice

6.1 Bunyi/ *Sound*

Buku Teks m.s. 112 – 120

A Cari lima perkataan tersembunyi berkaitan aktiviti yang boleh menghasilkan bunyi dalam himpunan huruf di bawah. TP1 10
Find five hidden words about activities that can produce sound in the following word search.

A	Q	G	Y	P	L	U	C	K	I	N	G	S	G	T	A
L	P	E	T	I	K	A	N	T	E	R	A	N	U	I	S
K	F	R	U	N	A	Y	N	K	W	A	I	A	K	U	C
N	S	A	M	B	I	L	A	N	E	W	A	R	T	P	L
O	S	A	T	U	K	A	N	K	O	T	H	A	N	A	A
C	W	A	N	I	T	A	T	B	R	H	U	A	I	N	P
K	B	L	O	W	I	N	G	A	S	A	R	K	A	R	P
I	F	E	T	E	P	U	K	A	N	D	U	P	A	R	I
N	S	E	N	G	D	A	E	S	L	E	A	W	S	N	N
G	A	Z	S	F	A	G	E	S	E	K	A	N	W	Y	G

LIVEWORKSHEETS

B Lengkapkan pernyataan di bawah dengan perkataan yang sesuai. TP2 8
Complete the statement below with the relevant words.

Apabila sesuatu objek diketuk, 1. _____, ditiup,

2. _____ dan ditepuk, objek tersebut akan

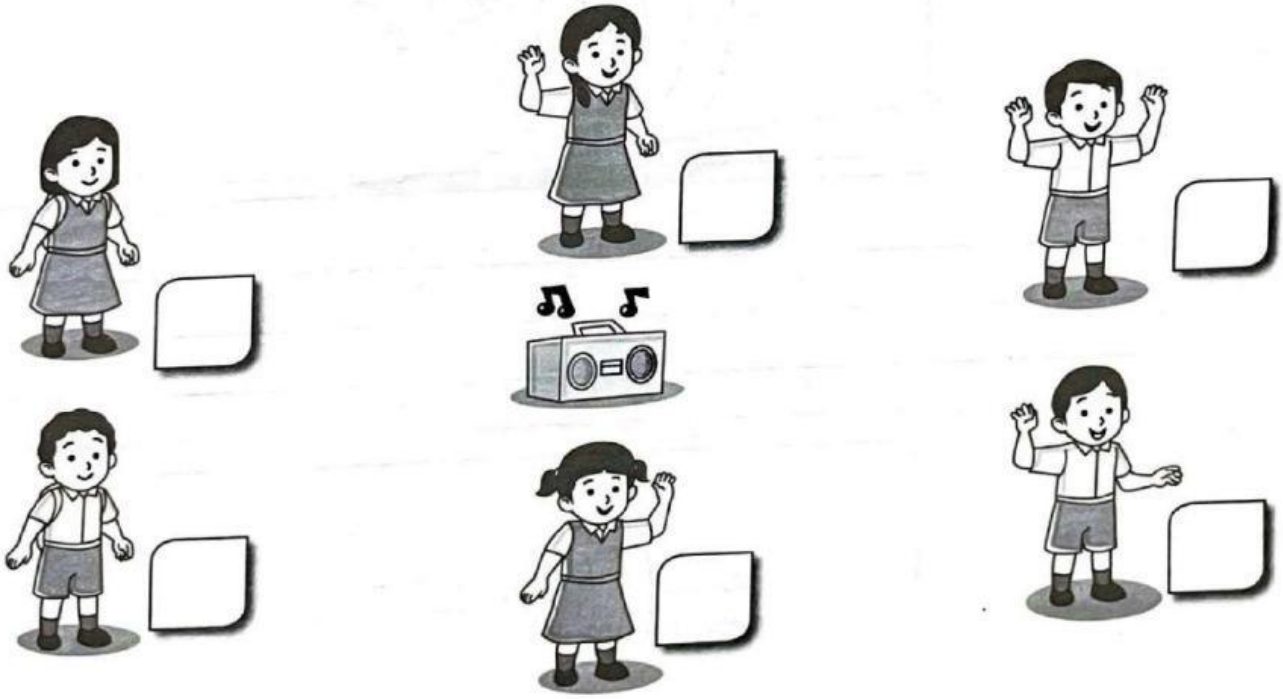
3. _____ dan menghasilkan 4. _____.

When an object is knocked, 1. _____, *blown,*

2. _____ *and clapped, the object will*

3. _____ *and produces* 4. _____.

C Tandakan (✓) bagi individu yang boleh mendengar muzik daripada radio berikut. Kemudian, lengkapkan kesimpulan di bawah. TP3 4
Mark (✓) for individuals who can hear the music from the radio shown below. Hence, complete the conclusion below.



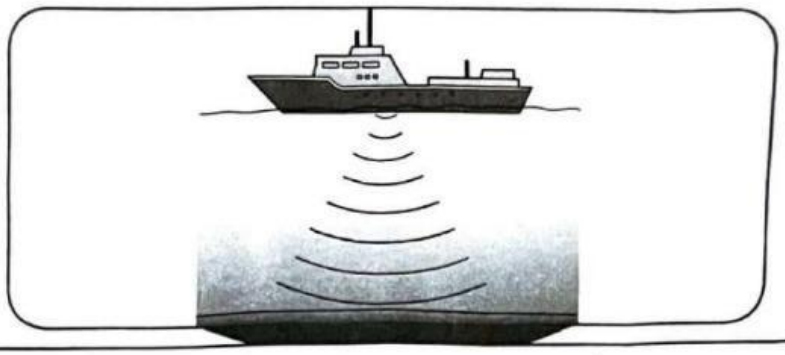
Kesimpulannya, bunyi boleh bergerak ke _____.

In conclusion, sound can travel to _____.

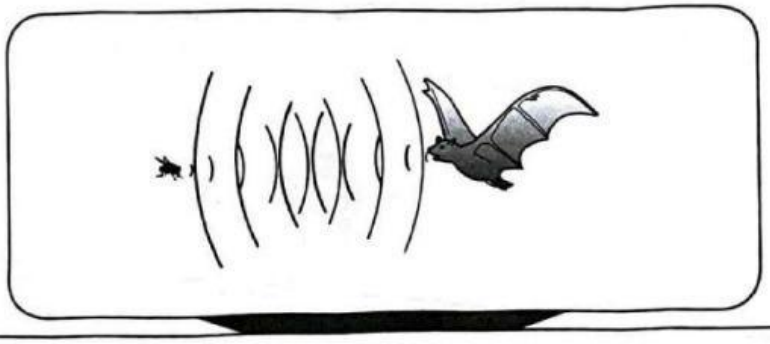
LIVEWORKSHEETS

D Jelaskan fenomena yang berikut. TP4
Explain the following phenomena.

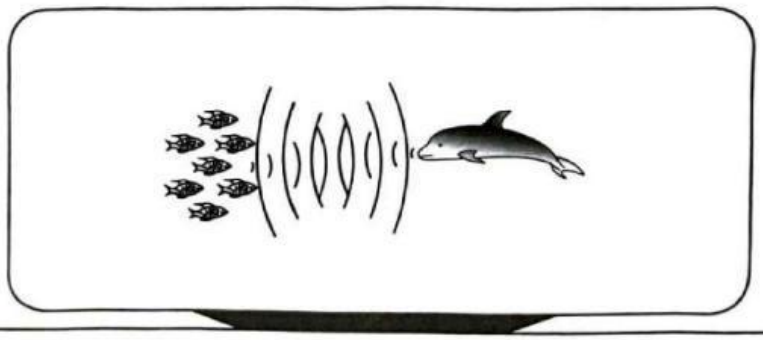
1.



2.



3.



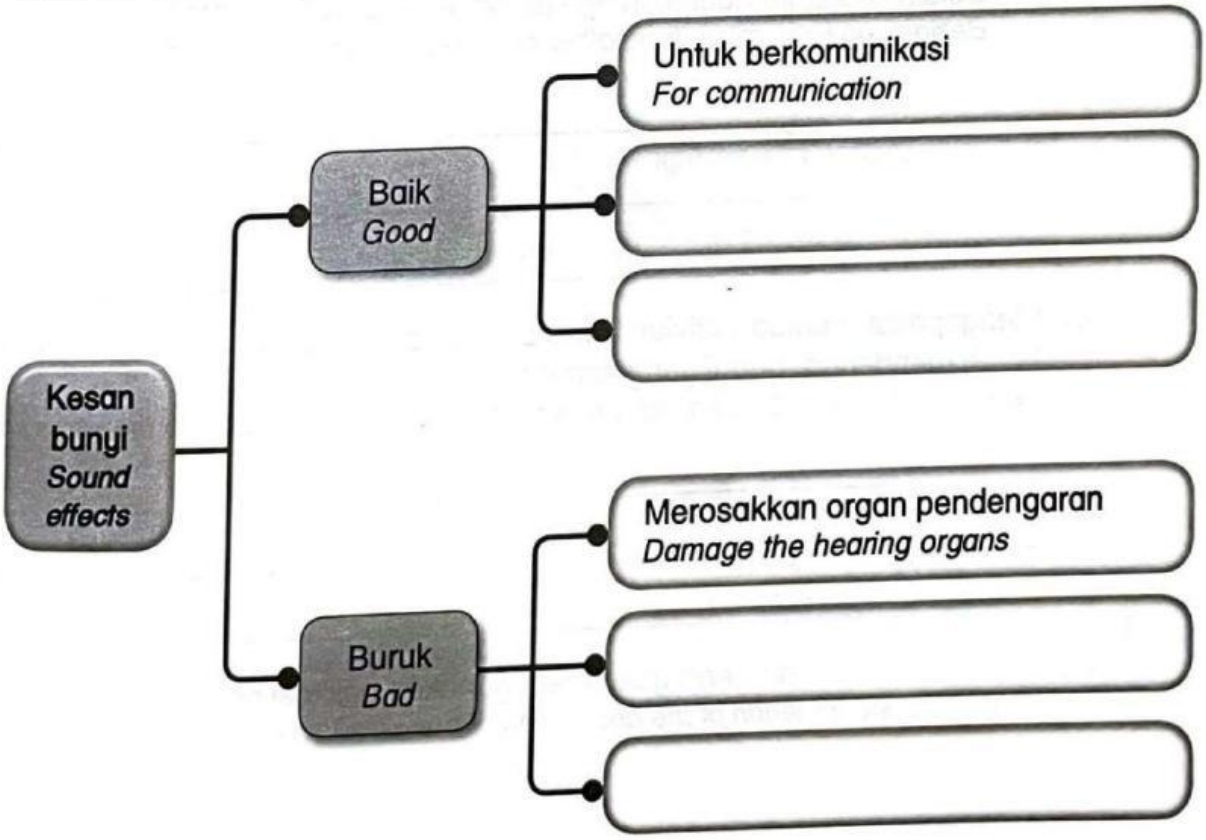
LIVEWORKSHEETS

E Pencemaran bunyi memberi kesan buruk kepada kehidupan manusia. TP5 6
Sound pollution cause bad effects to humans.

Cadangkan tiga kaedah yang boleh mengurangkan pencemaran bunyi.
Suggest three ways to reduce sound pollution.

- _____
- _____
- _____

F Lengkapkan peta pemikiran di bawah dengan kesan baik dan kesan buruk bunyi. TP6 8
Complete the following thinking map with the good and bad effects of sound.

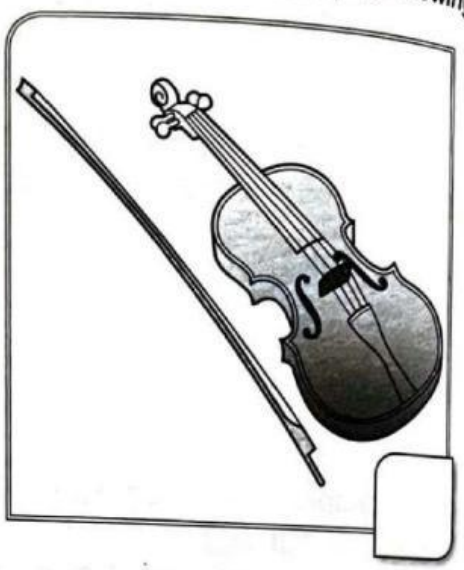


LIVEWORKSHEETS

A Jawab soalan berikut.
Answer the following questions.

1. Bunyi ialah satu bentuk tenaga yang terhasil apabila objek bergetar dan ia bergerak dalam bentuk gelombang.
Sound is a form of energy that is produced when an object vibrates and it travels as a wave.

(a) (i) Antara alat muzik berikut, yang manakah akan menghasilkan bunyi akibat aktiviti gesekan?
Which of the following musical instruments can produce sound through bowing?



(ii) Selain gesekan, nyatakan tiga aktiviti lain yang boleh menghasilkan bunyi.
Besides bowing, state three other activities that can produce sound.

- _____
- _____
- _____

(b) Mengapakah semua individu yang berada di kawasan sekeliling sumber bunyi boleh mendengar bunyi yang sama?
Why are all individuals who are around a sound source able to hear the same sound?

_____

_____

_____

(c) Nyatakan satu fenomena yang menggunakan aplikasi pantulan bunyi.
State one phenomenon of the application of the reflection of sound.

_____

LIVEWORKSHEETS

2. (a) Keratan akhbar berikut adalah berkaitan kesan pencemaran bunyi terhadap hidupan di dalam laut.
The newspaper extract below is about the effects of sound pollution to life in the ocean.

> Kota Kinabalu – Seekor ikan lumba-lumba dijumpai terdampar di Pulau Gandang, Teluk Selama, Tuaran, kelmarin dipercayai tersesat ke perairan negeri ini. Penyelidik di Institut Penyelidikan Marin Borneo (IPMB) UMS akan bekerjasama dengan agensi lain seperti Jabatan Hidupan Liar untuk menjaga haiwan itu dan memastikan kesihatan mamalia itu terjamin sebelum dilepaskan ke laut semula.
> *[Sumber: Dipetik dan diubahsuai daripada Berita Harian, 28 Disember 2012]*
> *Kota Kinabalu – Yesterday, a dolphin which was found stranded on Pulau Gandang, Teluk Selama, Tuaran, is believed to have strayed in the waters of the state. The researchers of Institut Penyelidikan Marin Borneo (IPMB) UMS will collaborate with other agencies such as the Wildlife Department to take care of the animal and to ensure the safety of the mammal before it is released into the ocean again.*
> *[Source: Extracted and adopted from Berita Harian, 28th December 2012]*

(i) Pada pendapat kamu, mengapakah ikan lumba-lumba tersebut tersesat sehingga ke perairan negeri? KBAT Menganalisis
In your opinion, why was the dolphin strayed in the waters of the state? HOTS Analysing

_____

_____

_____

_____

(ii) Cadangkan satu cara yang boleh mengurangkan pencemaran bunyi di dalam laut. KBAT Mencipta
Suggest one way to reduce sound pollution in the ocean. HOTS Creating

_____

_____

_____

_____

(b) Nyatakan satu haiwan yang menggunakan aplikasi pantulan bunyi semasa mencari makanan dan bergerak.
State one animal that uses the reflection of sound to find its prey and move around.

_____

Tahap Penguasaan/ *Performance Level*					
TP1	TP2	TP3	TP4	TP5	TP6

LIVEWORKSHEETS