BAB 1

1.5 KBAT **AKTIVITI PERBINCANGAN**

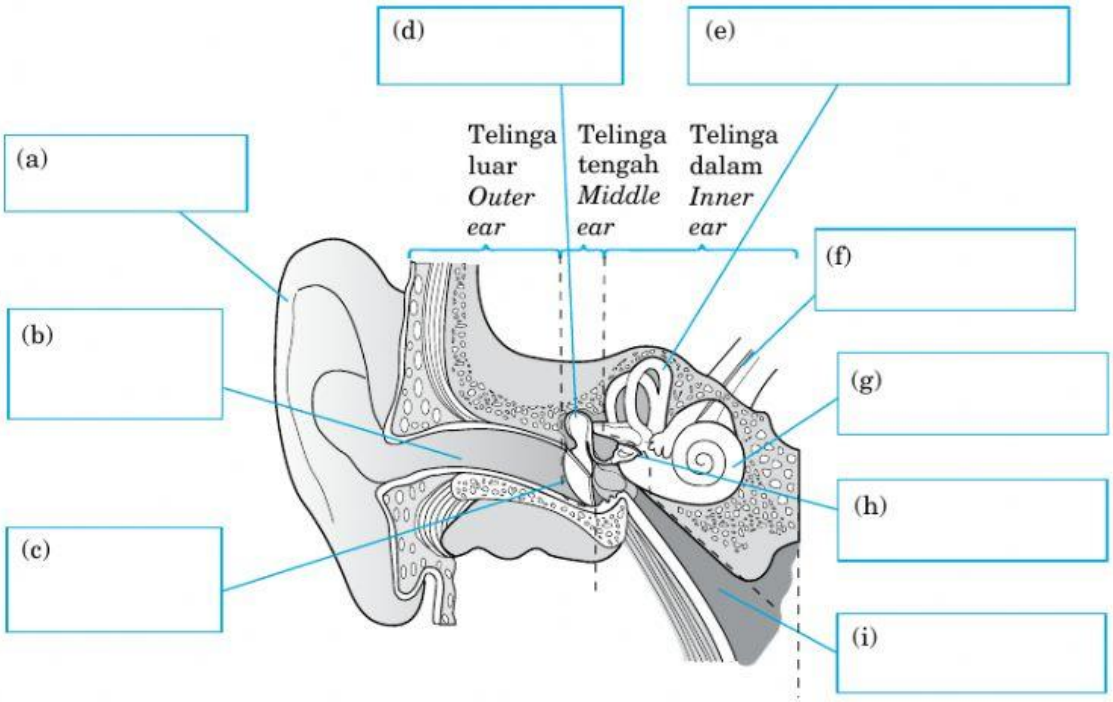
Struktur telinga manusia dan mekanisme pendengaran
Structure of the human ear and hearing mechanism

PBD Masteri

Buku teks m/s 13, 14 & 17

1 Labelkan struktur telinga manusia. TP1
Label the structure of the human ear.

Cuping telinga *Pinna*	Koklea *Cochlea*	Salur separuh bulat *Semicircular canals*	Saraf auditori *Auditory nerve*	Osikel *Ossicles*
Tiub Eustachio *Eustachian tube*	Salur telinga *Ear canal*	Gegendang telinga *Eardrum*	Jendela bujur *Oval window*	



2 Apakah fungsi telinga?/*What is the function of the ear?* TP1

Mengesan _____ / *To detect* _____

3 Bahagian telinga yang manakah akan terganggu apabila seseorang mengalami mabuk laut atau selepas menggunakan lif? TP1
Which part of the ear is affected when a person suffers from seasickness or after using a lift?

_____

Galeri Info
Salur telinga juga dikenal sebagai salur auditori.
Ear canal is also known as auditory canal.

4 Tandakan (✓) **dua** struktur telinga yang **tidak** memainkan peranan dalam pendengaran. TP1
*Tick (✓) **two** structures of the ear which do **not** play a part in hearing.*

☐ Cuping telinga *Pinna*
☐ Salur separuh bulat *Semicircular canals*
☐ Tiub Eustachio *Eustachian tube*

5 Nyatakan kandungan bahagian telinga. / *State the content of the parts of the ear.* TP1

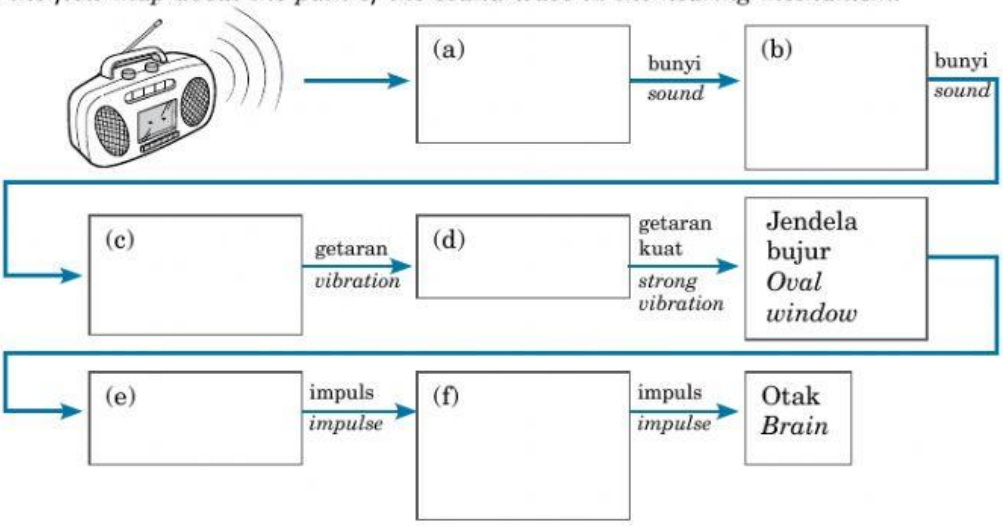
	Bendalir/*Fluid*	Udara/*Air*
(a) Telinga luar/*External ear*	: _____	
(b) Telinga tengah/*Middle ear*	: _____	
(c) Telinga dalam/*Inner ear*	: _____	

LIVEWORKSHEETS

6 Namakan bahagian telinga berdasarkan fungsinya. TP2
Name the parts of the ear based on their functions.

	Bahagian telinga ***Parts of the ear***	**Fungsi** ***Functions***
Telinga luar *Outer ear*	(a)	Mengumpul dan menghantar gelombang bunyi ke dalam salur telinga *Collects and sends sound waves into the ear canal*
	(b)	Menyalurkan gelombang bunyi ke gegendang telinga *Channels sound waves to the eardrum*
Telinga tengah *Middle ear*	(c)	Bergetar apabila gelombang bunyi mengenainya dan memindahkan getaran ke osikel *Vibrates when it is hit by sound waves and sends vibrations to ossicles*
	(d)	Menguatkan getaran bunyi dan memindahkannya ke jendela bujur *Amplify sound vibrations and send them to the oval window*
	(e)	Menghantar getaran dari osikel ke koklea *Sends vibrations from the ossicles to the cochlea*
	(f)	Mengimbangkan tekanan udara di kedua-dua belah gegendang telinga *Equalises the air pressure on both sides of the eardrum*
Telinga dalam *Inner ear*	(g)	Mengesan dan menukarkan getaran bunyi kepada impuls saraf *Detects and converts sound vibrations into nerve impulses*
	(h)	Mengesan kedudukan kepala dan mengawal keseimbangan badan *Detect the position of the head and control the body balance*
	(i)	Menghantar impuls saraf ke otak untuk pentafsiran *Sends nerve impulses to the brain for interpretation*

7 Lengkapkan peta alir tentang laluan gelombang bunyi dalam mekanisme pendengaran. TP2
Complete the flow map about the path of the sound wave in the hearing mechanism.



8 Ali menghadapi masalah hilang pendengaran. Bahagian telinga manakah yang mungkin rosak dan cadangkan **satu** cara untuk mengatasi masalahnya? TP3/KBAT
Ali faces the problem of hearing loss. Which part of the ear may be damaged and suggest a way to resolve his problem?

Praktis Kendiri

LIVEWORKSHEETS