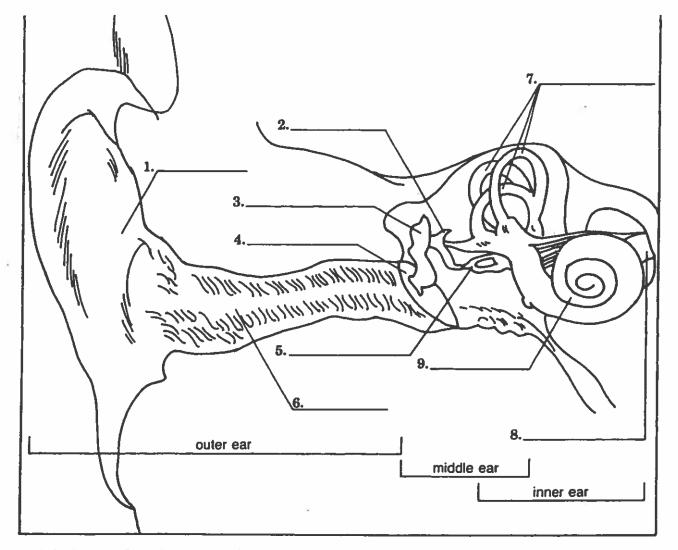
The Ears

ilo Ealo	Name_	
	Date	
	Per	Page
		-
ECTIVE.		
ECTIVE:		
EARCH:		
outer ear:		
middle car:		
middle ear:		
	<u> </u>	
eardrum:		
3 bones involved:	4	
1	-	
2. 3.	 -	
0.		
eustachian tube:		
•		
inner ear:		
semicircular canals:_ sechlos:		
z. cociliea.		
hearing:		<u> </u>
/ Y AA		Man T insk form Him
a ala	1	Man, I just love this beat! Makes me want

wow! With this new accoustical shell, the sound is really awesome!

Man, I just love this beat! Makes me want to get up and 3 dance!

What's going on here? I can't hear a thing! I'm going to demand my money back!! 2



ACTIVITIES WITH EARS AND SOUNDS:

ACTIVITY 1: SOUNDS OF SILENCE

1. Sit quietly for five minutes and write down all the sounds you hear:

ACTIVITY 2: MYSTERY SOUNDS

1.	Identify	each of the five mystery sounds.	(keep your eyes closed, but listen
	a		
	b. 🔻		
	C.		
	d.		
	Δ.		

The Ears, continued	page
ACTIVITY 3: WHERE DID I HEAR THAT?	
1. Have your partner close his/her eyes and st	trike two metal pieces together
(to the right, to the left, right in front and right b	
will try to identify where the sound is coming fr	

2.	Which locations are easiest for him/her to identify?
3.	Which locations are hardest for him/her to identify?
	Explain the difference:

ACTIVITY 4: SOUNDS OF THE SEA?

1.	Have you ever heard sounds when you put a seashell to your ear? It is not
	the sea you hear, but the sound of air inside the shell which is vibrating in
	response to sound waves in the air around the shell. What happens when
	you cup your hand and hold it to your ear?
	What do you hear?
	what do you hear r

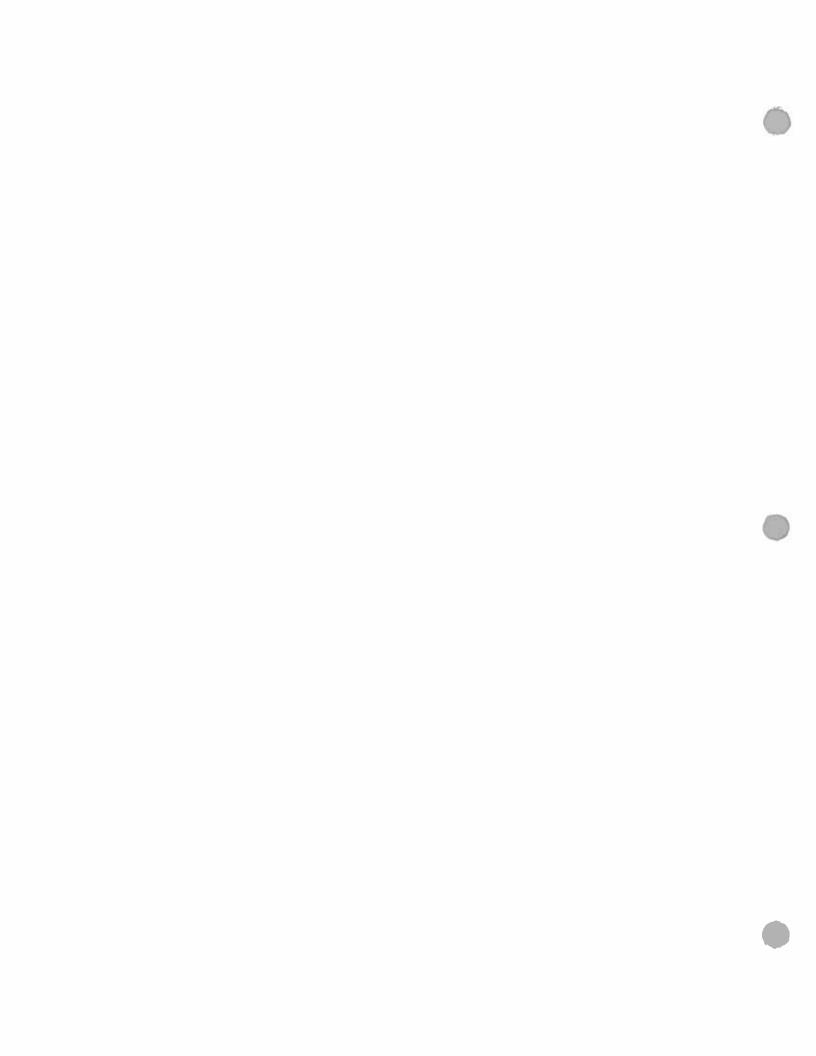
2.	I ry other objects:	a styrofoam	cup, a tin cai	n, a paper cup.	What difference
	is there in the sou	und between	a small object	t and a fairly l	arge object?

ACTIVITY 5: HOMEMADE TELEPHONES

- 1. With your partner, pick up the styrofoam cups with the string already attached. Pull on the cups so there is tension but without pulling too firmly and breaking the cups.
- 2. One person will put the cup to his/her ear. The other person will talk into the other cup.
- 3. Record whether the transmission of sound was good, fair or poor.
- 4. Try the tin phones and the paper cup phones.

CUPS	SOUND TRANSMISSION		
	GOOD	FAIR	POOR
STYROFOAM			
TIN			
PAPER			

- 5	How are the model telephones like our ears?
	Why do you think the sound travels along the string?
7.	Would the length of the string affect the quality of the phone?



ACTIVITY 6: MAKE SOUND WAVES

- 1. Use the string with the spoon attached to it. Push each end of the string in one of your ears.

2 Swing the string so it strikes the table.3. Record what happens:



