

Evaluating the Fidelity of a Speaker

- Note the diameter of the speaker cone and the type of material from which it is constructed.

_____ Diameter (in inches) _____ Diameter (in inches)
 _____ Material _____ Material

- Record the sound level output by the speaker in response to each frequency below.

Record the Sound Level Output by the Speaker in Response to Each Frequency							
	Frequency (Hz)	125	250	500	1000	2000	4000
Small	Sound Level (in dB)						
Large	Sound Level (in dB)						

- Plot the sound level recorded for the speaker at each frequency in the chart below.

dB	Plot the Sound Level Recorded for the Speaker for Each Frequency						
100							
95							
90							
85							
80							
75							
70							
65							
60							
55							
50							
45							
40							
	125	250	500	1000	2000	4000	