

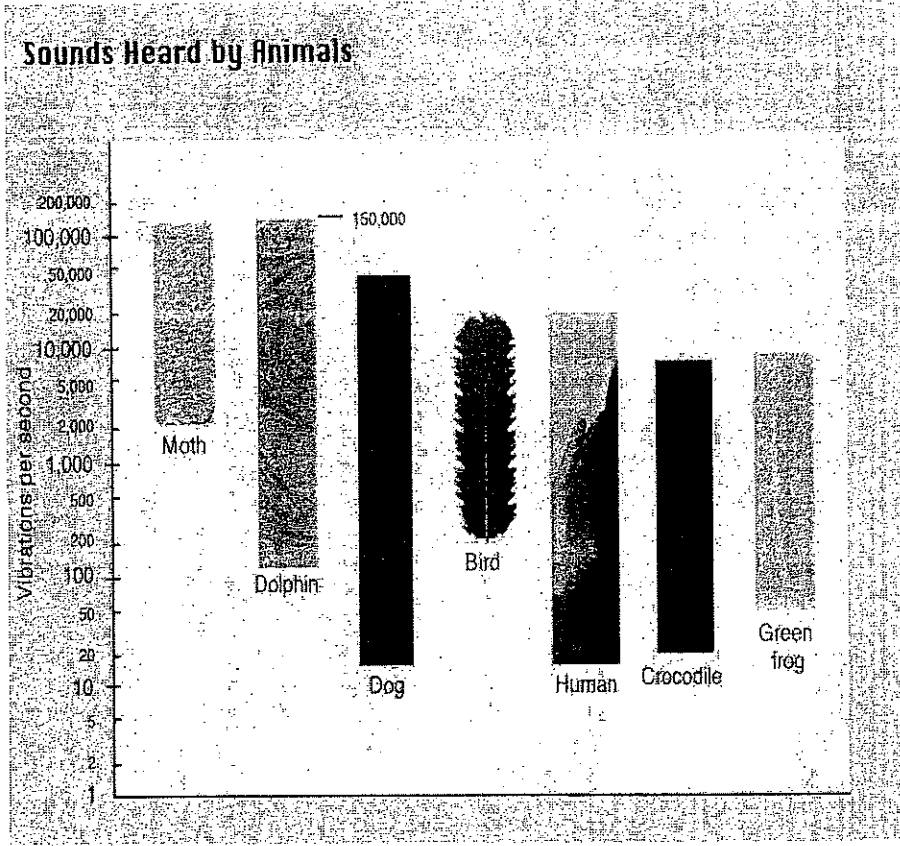
Name: _____ Hour: _____

Oakland Schools Science Scope

Sound Investigation

This graph shows the approximate vibration rates required to produce sounds that various kinds of animals can hear. From this graph, find the answers to the questions that follow.

In the table, first write the approximate range of vibration heard by each animal. (HINT: Look closely at the scale!)



Note that a vibrating object must move back and forth at least 20 times per second to produce a sound that humans can hear. Above what rate of vibration are sounds inaudible to humans?

Which animal(s) can hear **higher** sounds that aren't audible to people?

Which animal(s) can hear **lower** sounds that aren't audible to people?

Which animal can hear the widest range of vibration rates?

| Animal | Vibrations per second |
|------------|-----------------------|
| Moth | |
| Dolphin | |
| Dog | |
| Bird | |
| Human | |
| Crocodile | |
| Green Frog | |