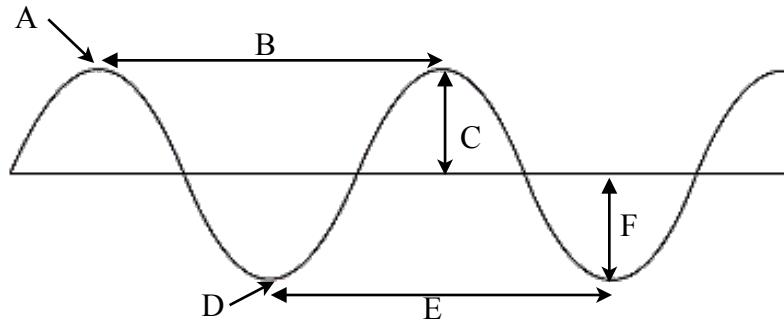


Name: _____

Date: _____

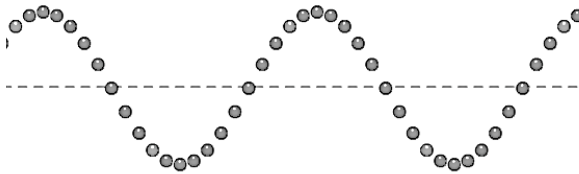
Waves Worksheet #2

- A: _____
- B: _____
- C: _____
- D: _____
- E: _____
- F: _____



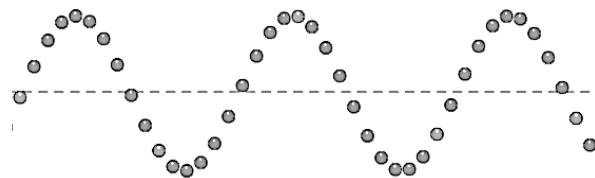
Frequency

Wave 1:



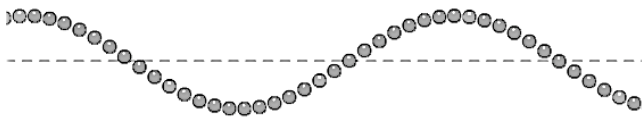
- 1. How many wavelengths long is Wave 1?
- 2. How many wavelengths long is Wave 2?

Wave 2:



- 3. How many wavelengths long is Wave 3?
- 4. Which wave has the highest frequency?
- 5. Which wave has the lowest frequency?

Wave 3:



- 6. What is the definition of frequency?
- 7. How can you tell by looking at it if a wave has high or low frequency?

Frequency Connection

There are three members of a family. The dad has a deep, low voice. The mom has a medium-high voice, and the baby has the highest voice.

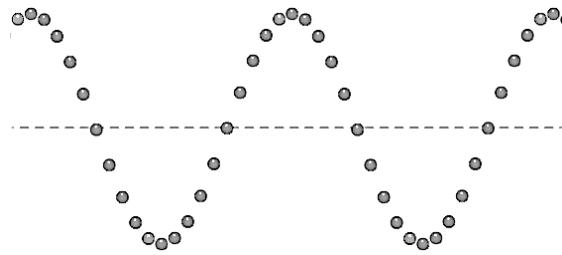
- 8. Which wave belongs to the dad's voice? _____
- 9. Which wave belongs to the mom's voice? _____
- 10. Which wave belongs to the baby's voice? _____

Amplitude

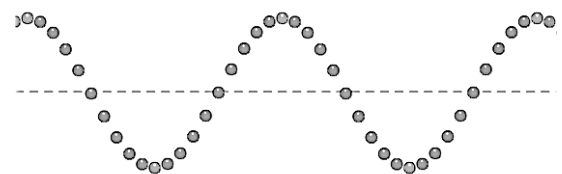
Wave 4:



Wave 5:



Wave 6:



1. Which wave has the highest amplitude?
2. Which wave has the lowest amplitude?
3. Use a ruler and measure the amplitude of Wave 5:
4. What is the definition of amplitude?
5. How can you tell by looking at it if a wave has high or low amplitude?

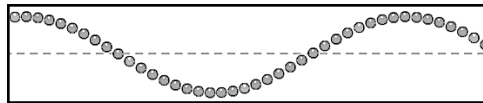
Amplitude Connection

Juan is playing the piano. The music starts off at *meso-forte* (medium high volume). It then *crescendos* into *forte* (loud) and Juan plays dramatically. The music ends at *piano* (quietly) with a sweet melody.

6. Which wave represents the music at the beginning? _____
7. Which wave represents the music in the middle? _____
8. Which wave represents the music at the end? _____

Final Waves Goodbye

Compare waves A-D by both amplitude and frequency to the Standard Wave. (Higher/Lower/Same)



Standard Wave

<p>A</p> <p>_____ Amplitude; _____ Frequency</p>	<p>B</p> <p>_____ Amplitude; _____ Frequency</p>
<p>C</p> <p>_____ Amplitude; _____ Frequency</p>	<p>D</p> <p>_____ Amplitude; _____ Frequency</p>