**FPS – Introduction to Waves Notes**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| I can… |
| *Define main types of waves.*  *Relate the properties of a wave.* |

|  |  |
| --- | --- |
| ***Waves - Notes*** | |
| ***BELLWORK*** – Think, pair, share activity  -**Think** about different types of waves you have seen. Write down 2 examples. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ -**Pair up** with the person next to you. Share your experiences with your partner. Write down 1 thing your partner said. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ -**Share** with the class. Write down 1 thing you and your partner would like to share on the whiteboard. | C:\Documents and Settings\Connie\Local Settings\Temporary Internet Files\Content.IE5\LV0B0519\MCj04115000000[1].wmf |
| 1. ***Waves – What do they do?*** 2. ***Mechanical Waves***   -Mechanical waves are waves that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. -Created when a source of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ causes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to travel through a medium. | |
| 1. ***What is a medium?***   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solids, liquids, and gases. Examples: | |
| 1. ***Two types of main waves:*** | |
| 1. ***Longitudinal waves***   ***-***Wave travels \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Example:** | |
| 1. ***Transverse waves*** A transverse wave causes the particles to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the direction of its motion.   ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are transverse waves.***  ***Twave*** | |
| 1. ***Wave parameters***   ***-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (λ) – length or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of one oscillation***  ***-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(A) – strength of disturbance (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)***  ***-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(f) – repetition or how \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they occur per \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***  http://secoora.org/webfm_send/264 | |

|  |
| --- |
| 1. ***Review Questions—*** 2. What do waves travel through? 3. What is an example of a medium? 4. What are the two types of waves? 5. What is an example of a longitudinal wave? 6. What is an example of a transverse wave? 7. What are the 3 parameters of a wave? 8. What is amplitude? 9. What is Wavelength? 10. What is frequency? |