Name: Date:



1. Hypothesize which speed above you think will wield the largest and fastest type of wave.

Use appropriate hypothesis format: If…….then…..because statement.

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1. Using the packet provided, investigate the different effects on the waves using the different speeds and sizes from the chart above.
2. Place your data in this chart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Wave Number | Wavelength | Amplitude | Speed | Size | Time |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 11 |  |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |
| 14 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 16 |  |  |  |  |  |
| 17 |  |  |  |  |  |

1. Choose three different speeds and sizes. Sketch each wave below and label the wavelength, amplitude, and graph number.
2. Explain the relationship between speed and size in 3-4 sentences. How do these two characteristics affect the wavelength and amplitude?
3. Where could you use the wave technology above in everyday life.