



**PHYSICS**

**WAVES**

WAVES

**Mechanical Waves -**

Types of Waves

**Transverse Wave -**

<http://www.youtube.com/watch?v=aT8xJJQt0cU>

**Longitudinal Wave -**

<http://www.youtube.com/watch?v=WwINPhn64TA&feature=related>

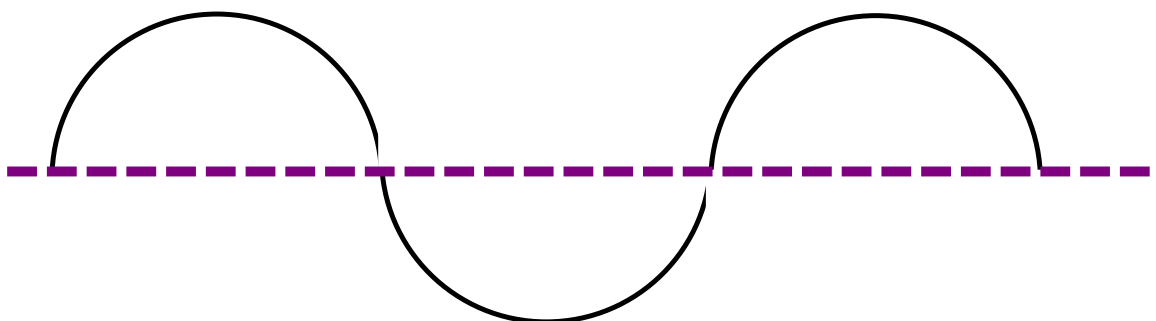
<http://www.youtube.com/watch?v=zxQSJj3pypA>

<http://www.youtube.com/watch?v=mrr25jIOweE&feature=related>

**Rotational Wave -**

**PHYSICS****WAVES**

Recall Transverse Waves



**CREST** -

**TROUGH** -

**WAVELENGTH ( $\lambda$ )** -

**PHYSICS****WAVES**WAVE EQUATION

$$v = f\lambda$$

v -  
f -  
 $\lambda$  -

**Ex:** The distance between successive crests in a series of water waves is 4.0m and the crests travel 9.0m in 4.5s. What is the frequency of the waves?



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<http://www.youtube.com/watch?v=EzvDat00ZzU>