Name:	Integrated Science I Worksheet: Waves-2					20 Pts.	
 The line below has a scale 1 inch between each has mark. Draw a wave that has a wavelength of 2 inches and repeat this period 3 times. Your wave should start and end on the line. Label the crest, trough, and amplitude of your wave. 							
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2. A wave vibrates 40 times per second and has a wavelength of 0.5mm. What is the							
frequency: use proper units!							
wavelength: use proper units!							
Period: use proper units!							
speed of the wave: use proper units!							
3. A wave's frequency increases by 3 times. How does the wavelength change?							
4. A waves frequency increases by 10 times. How does the period change?							
5. X-rays have a much shorter wavelength than microwaves. Which has the higher frequency?							
6. A ship sends a sonar signal to the bottom of the ocean floor. The signal travel 1320m/s. It takes 8 seconds for the signal to return to the ship. How deep is the ocean?							
7. How does the angle of incidence compare to the angle of reflection?							
Vocabular F	ry Terms: Place the number	before the term	ı				
	amplitude				period		
	beats				refraction		
	bow wave				resonance		
	Doppler effect				shock wave		
	forced vibration	n			sonic boom		
	frequency				standing wave		

_____ transverse wave

____ wave

____ wave speed

____ wavelength

_____ frequency ____ hertz

_____ interference

_____ longitudinal wave

_____ natural frequency

20 Pts.