

## Harmonic Motion

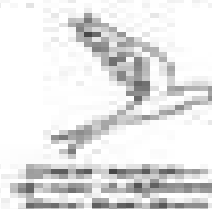
**Simple harmonic motion** is any motion that is repetitive (doing the same thing over and over), and caused by a restoring force. Pendulums, bouncing springs, vibrating molecular structures, waves, etc. are all harmonic motion.



**Simple harmonic motion** goes back and forth, one direction.



A ball thrown into the air moves up and down. The energy isn't getting up and down. Actually, it is. Energy moves up and down, but it's not the same energy. It's different. It's different.



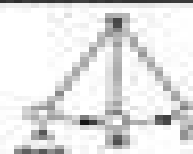
**Restoring force** is a force that tends to return an object to equilibrium (center of gravity). If a pendulum is displaced, gravity pulls it back to center. Because it has momentum, it goes past center and then up going back and forth.

### Parts of Harmonic Motion

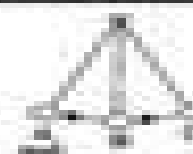
**Period**—the regular duration of the motion, includes all of the steps of the motion.

**Amplitude**—length of time for one cycle, time long it takes for one repetition.

**Frequency**—number of cycles per unit of time. If time is 1 sec, frequency is 1/sec.



From A to B is one half a cycle.



Amplitude is the distance from the center to the edge of the cycle.

If it takes 2 seconds for the pendulum to go from A to B and back to A, the period is 2 seconds.



Mr. A. is a pendulum with a frequency of 1 Hz. Find its period.	
Find the Period	$T = 1/F$ $T = 1/1 \text{ Hz}$ $T = 1 \text{ sec}$

Mr. A. is a pendulum with a period of 1 second. Find its frequency.	
Find the Frequency	$F = 1/T$ $F = 1/1 \text{ sec}$ $F = 1 \text{ Hz}$

**Amplitude**—the maximum distance or length the object moves from its center position. For the car and ball, it's the distance from the center to the edge.



$\text{Amplitude} = \frac{1}{2}(\text{Height} - \text{Low})$

### Graphing Harmonic Motion

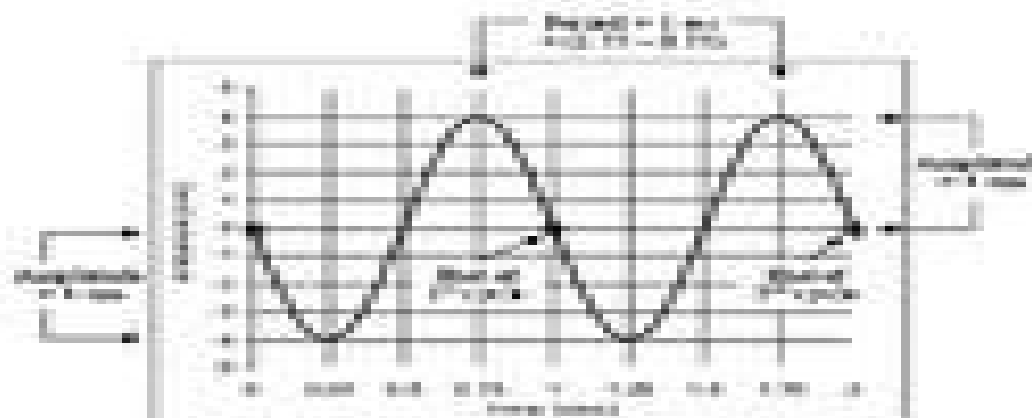
This is a graph showing one full period of harmonic motion.

**Period**—the regular duration of the motion. One cycle, from A to B and back to A.

**Amplitude**—length of time for one cycle, time long it takes for one repetition.

**Frequency**—number of cycles per unit of time. If time is 1 sec, frequency is 1/sec.

**Amplitude**—distance the graph goes away from the center line. For the car and ball, it's the distance from the center to the edge.



# Skill Sheet 11 Harmonic Motion Answers

**Lingjun Ying**



## Skill Sheet 11 Harmonic Motion Answers:

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    - Chapter 3: Skill Sheet 11 Harmonic Motion Answers in Everyday Life
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    - Chapter 5: Conclusion
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