

SECTION
2-4 Gravity

(pages 47-55)

KEY CONCEPTS

▲ The acceleration of a falling object is due to the force of gravity between the object and the Earth.

▲ Weight is a measure of the force of gravity on an object.

■ Building Vocabulary Skills: Expanding Definitions

Use the following terms to write a paragraph that describes gravity.

acceleration

falling object

9.8 m/sec/sec

universe

velocity

force

Earth

law of universal gravitation

■ Falling Objects: Understanding the Main Ideas

Near the surface of the Earth, the acceleration due to gravity is 9.8 m/sec/sec . Use this information to complete the table below. Then use your data to make a graph of velocity vs. time for a falling object.

Table 1: Falling Objects

Time in Air (sec)	Velocity (m/sec)
1	
2	
3	
	39.2
	49.0
6	
7	
8	
9	
	98.0

Graph: Velocity vs. Time for Falling Objects

