

## 20.2: Introduction

A swing at the park is an example of a pendulum. The period of a swing, or pendulum, is the time required for the pendulum to circle back to its beginning point, after traveling outward (i.e., from **A** to **B** back to **A**).

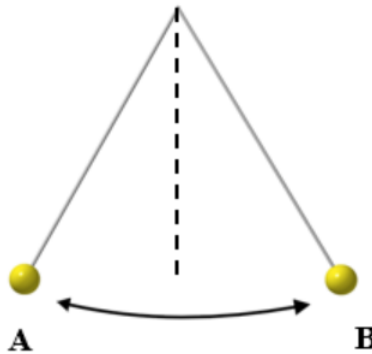


Figure 20.2.1: Period of a swing, or pendulum

Conservation of energy maintains the motion of the pendulum, as Gravitational Potential Energy (GPE) is converted to Kinetic Energy (KE), and KE is converted back into GPE. A swing at the park is just a pendulum with a length, and you are the mass. As you swing, the angle with respect to vertical changes.

### Contributors and Attributions

- Template:ContribCCPhySc101L

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