

LESSON PREP: Cut one piece of 2 foot long string for each pair of campers. Tie each string to a washer and then cut each string to 21" in length (from the end of the string to the top of the washer). It is important to be as accurate as you can with this.

MATERIALS:

- Washers
- String
- Tape
- Journals

In this activity, the partners from the last activity determine how long simple activities take using a pendulum clock. Then they compare those times to see which tasks take more or less than a minute.

Take the crew out to the playground. Bring one **pendulum** and some **tape**. Have the pirates bring their **journals** and pencils. Tape the pendulum to an appropriate place on the playground. The following are some tasks to time, but there are many other possibilities depending on the playground layout.

- The time it takes to walk from the swings to the basketball hoop.
- The time to walk from the swings to the monkey bars.
- The time to walk from the back door to the swings and back.

Have one partner do the task while the other partner writes the task name in in their journal, measures the time it takes and then records the measurement.

Teacher Note: Before starting each activity, make sure the measurer is ready to start accurately counting each back and forth cycle.

When finished measuring the time it takes to complete various tasks, ask the pirates some of the following:

- ? How do you know which tasks take less than a minute?
- ? How do you know which take more than a minute?
- ? Which tasks take more than a minute?
- ? Which take less than a minute?

