

Follow the instructions to create your own sundial



Sundial Experiment

Materials:

- ★ Straight stick about two feet long
- ★ small rocks or small seashells
- ★ a watch
- ★ chalk (optional)
- ★ Sand (optional)
- ★ Bucket (optional)

Prediction – what do you think will happen?

Instructions:

1. Find a sunny spot and push the stick vertically straight into the grass or earth. If your backyard doesn't have any grass or earth, fill a small bucket with sand and place your stick into the bucket.
2. Start in the morning when the sun is up. At 7:00 am use a small rock or seashell to mark where the shadow of your stick falls. Come back at 8:00am, 9:00am, 10:00am, and so on until there is no more daylight in the day. You may want to mark your pebbles with the time they were placed using chalk.
3. By the end of the day your sundial will be complete.

The next day, can you use it to tell the time?

How it Works:

The sun's light will make your long stick cast a shadow. The shadow will change its angle depending how the sun's light is hitting the stick because our earth is constantly rotating and revolving around the sun.