

AS THE WORLD TURNS

PURPOSE: Children will observe the way Earth turns during the course of one day.

MATERIALS:

Book Topic: Earth, Sun.

Large ball (basketball, beach ball)

Flashlight

Paper and pencil

Tape



PROCEDURE:

1. Draw a three-inch figure of a person and place it on the ball.
2. Turn on the flashlight and hold it in a constant position toward the ball. (The ball represents Earth and the flashlight represents the Sun.)
3. Turn the ball with the person on it toward the light from the flashlight so that the person is in the light. What time of day is it now?
4. Continue to turn the ball until the person is no longer in the light. What time of day is it now?
5. Can you tell when it is day and when it is night?

HOW IT WORKS: Earth makes one full turn every day. When the Earth turns into the sunlight it is day. When the Earth turns away from the sunlight, it is night.



WRITING PROMPT:

You just learned what causes night and day.

Pretend you just met a creature from another planet. The creature asks you to explain why the Sun only shines part of the day.

Write an explanation to answer the creature's question.

Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Complete Website: _____

Writing Prompt (minimum 3 sentences)
