

GRACE Educational Curriculum	
Teachers	Grades K-2
Science	

## Climate Clothing

**Background Information:** Weather changes constantly and can be very unpredictable. Twin satellites, by the name of GRACE, have launched to study Earth's gravity. But GRACE will do more than just produce gravity maps. GRACE will improve the accuracy of many scientific measurements related to climate change. Some people live in places where it stays warm all year. Some people live in places where it is cold all year. Some people live in places where it changes from season to season. Your clothing or wardrobe changes depending on where you live. If you live in Florida most of your clothes would be for warm or hot weather. You may need a raincoat and a thin coat for the cooler months. If you live in Alaska your clothes would consist of sweaters and jackets. Alaska can be warmer in the summer but not too hot so layers work well in Alaska. If you live in New Jersey you have hot summers and cold winters. In New Jersey you need all different types of clothing because you get every type of weather. Dressing appropriately is very important. You need to be prepared for different weather at all times so you do not get "caught out in the cold."

**Objectives:** At the end of the lesson, students will be able to:

1. Understand that each area has a climate and clothing differs in different climates.
2. Different seasons can change the weather.
3. Identify appropriate clothing for different climates or weather.
4. Understand the importance of dressing appropriately for weather.
5. Recognize that GRACE will study gravity and climate change.

### **Standards:**

Science: unifying concepts and processes, science as inquiry and science in personal and social perspectives.

**Vocabulary:** Climate Weather Seasons

**Materials:** Paper doll cutouts Clothing cutouts  
Miss Weather by Colorforms

**Directions to teacher:**

1. Review the background information. Give examples of different weather and what would be appropriate to wear. Also share stories of times we were not dressed appropriately or were not prepared.
2. Identify different items of clothing –bring in concrete examples (shirt, socks, pants, shorts, sweater, hat, gloves, scarf, jacket (thin and thick), rain coat etc.
3. Pass out paper dolls. Have students color pictures and doll. Cut out different clothing pictures. Give students different weathers or climates and have them dress their doll. Share results.
4. If possible use Ms. Weather by Colorforms. She is a doll made of colorform materials. All the different clothes and accessories are made of colorform materials as well. You can dress her. There are different backgrounds with different weather and settings. This is a great educational toy for the classroom. It can be bought at most toy stores.
5. Show examples of how satellites help us track weather and climate change.  
(Topex Poseidon, GRACE, weather satellites, etc.)

**Extensions:**

- Watch the weather on the television. What clothes should you wear tomorrow?
- Find the weather map in the newspaper. What is the high and low temperature in New York City?
- Find a place on the map where it may rain.

**References / Resources:**

<http://www.nws.noaa.gov/>  
<http://www.usatoday.com/weather/wfront.htm>

# Paper Doll









