

Weather Science Lab:

Record the daily temperature and weather and create a relative graph

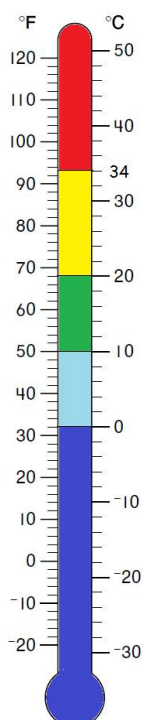
Teacher sheet

The aim of this activity is to familiarise students with **observing the weather and recording data**. More specifically, the teaching objectives are for students to:

- observe the temperature changes depending on the season
- create their own personal calendar based on weather conditions
- associate principles and concepts of science to everyday reality
- use technology to mine necessary data
- organise data
- create a bar chart to observe overall yearly conditions
- communicate and compare data with students in other countries

Procedure:



- Every Monday, at about the same time, the "meteorologist" checks the temperature on the school's weather station using the computer and writes it on the board
- Then the student checks the colour zone corresponding to the temperature on the thermometer, which has already been produced by the students during a previous activity. Please note that teachers should ensure the thermometer colour coding is depicted correctly, as shown in the picture below:



- The student then reports the results to the rest of the class and places a matching coloured sticky dot on the long strip of paper.



- At the same time the rest of the class makes a note of the information on their own working sheet.

15° C		
-------	---	---

- At the end of the month students note the colour and symbol that appeared the most at the end of their Table on their working sheets.
- At the end of the school year the class counts the number of dots of each colour and each symbol and creates a respective bar chart.

Necessary Materials/Equipment:

- Large class paper thermometer (students colour according to instructions)
- Coloured sticky dots or coloured pens/pencils
- Long strip of paper for recording coloured dots in class
- Computer with internet access

Suggestions for further elaboration:

- It would be a great idea for a class to connect through Skype with a class in another country through Skype, in order to share findings and compare data. Classes can discuss questions such as:
 - Which country had colder weather?
 - Which month was the coldest/warmest in each country?
 - How do our graphs show us that the season has changed?
 - How does the weather affect one's clothing or activities?
- We can encourage our students to keep their own weather diary, where they may note their daily weather observations (instead of weekly ones)
- After noting the temperature on the blackboard, students can debate whether they should wear a jacket in break time or not.
- Students can play a game of trying to predict next week's weather and see who was the closest to actual measurements.

