**LESSON PLAN**

**Relationship between germination and temperature**

**WITH THIS LESSON, THE STUDENTS ARE INTENDED TO LEARN THE FOLLOWING:**

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| 1. | Area of your county. |
| 2. | Location of the county on the map of Portugal. |
| 3. | Examples of existing plants in the county. |
| 4. | Distinction between forest spot and cultivated plants. |
| 5. | To know the factors that determine the climate. |
| 6. | Analyze the weather in Nelas, based on the records of the Weather Station Group. |

**ACTIVITY / EXPERIENCE 1**

**Material Required:** 5 pots / 5 soil thermometers / 25 soaked beans / gardening shovel / cultivating soil / graduated cup

**Methodology:**

1. To make known the structure of a seed (cotyledons and embryo)
2. Put soil in each pot
3. Sow 4 beans in each pot.
4. Water each pot with the same amount of water.
5. The water is always collected from the same place.
6. Place in each vial a thermometer
7. After fifteen minutes record the temperature of each vessel.
8. Place the pots in different places of the school. Recolher os dados da Estação Meteorológica nos dias de rega e antes de esta acontecer.

**Part II: Data collection**

- Collect vessel temperatures every 2 days before being showered with 30ml of water.

- Collect these data for two months and compare them with those collected by the Meteorological station.

**Part III: Analysis of results**

1. Relate temperature and humidity (watering) with the germination time of each seed and with the place where the pot was placed.

2. Match point one with the data collected at the Station.

3. Construction of a data analysis grid.

**Activity for children from:**

- 5 years; using images in the grid construction (weather symbols).

- nine years old; to attend the 5th year of schooling.