Future Classroom Lab

European Schoolnet

SCIENTIX
The community for science education in Europe

32nd Science Projects Workshop in the Future Classroom Lab

Brussels, 13-14 September 2019

We are growing under the same sun

Begoña, Guadalupe, Giulia,
Adriana and Bàrbara

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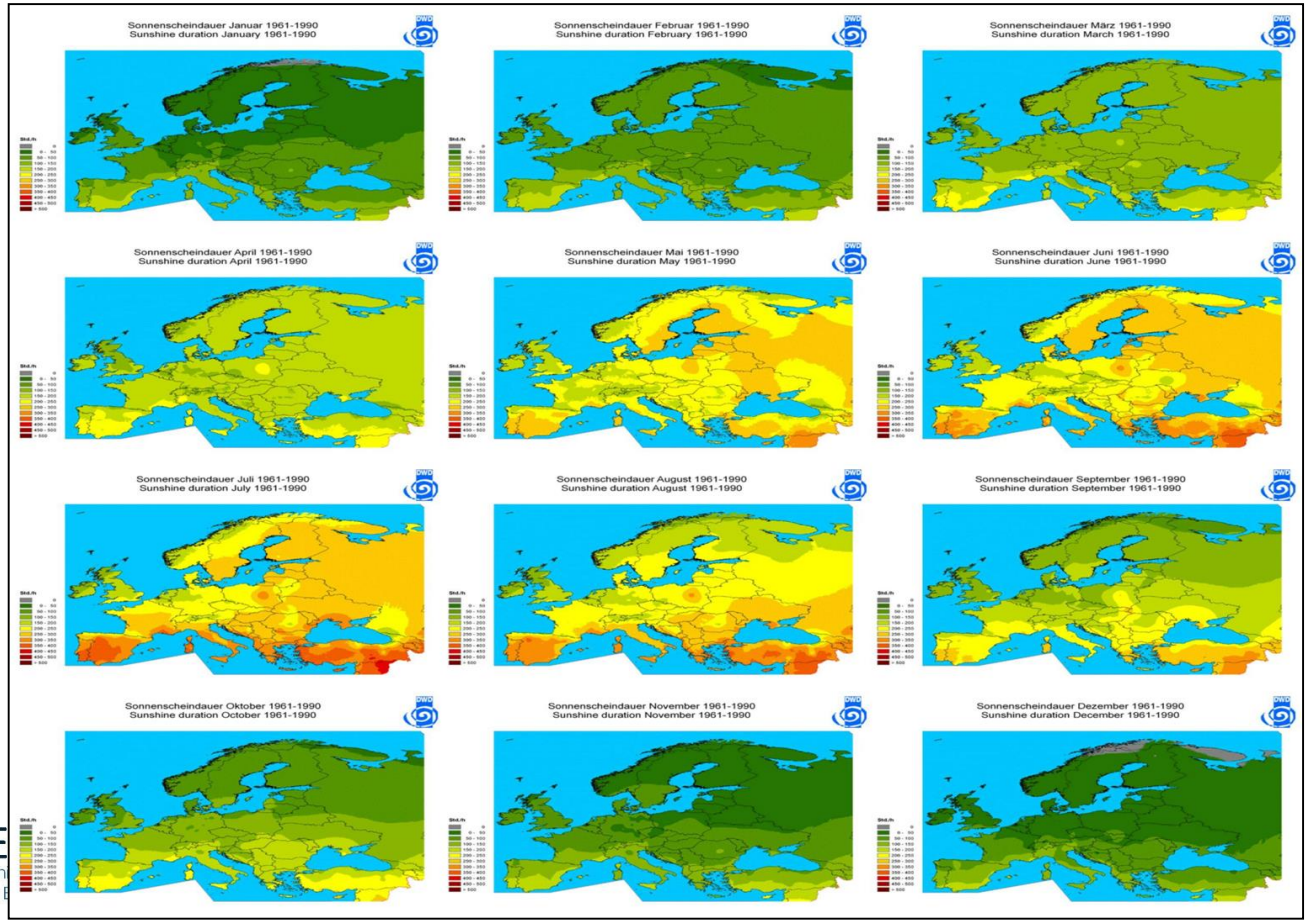
Project for primary students

Changes in light hours in Europa a year along



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- Understand the impact of sunlight on a plant's life cycle
- Study how the temperature varies in different climates and seasons
- Extract chlorophyll with chromatography and make some artistic plays with the extract

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TITLE	PROCEDURE	TIME
SEEDS	*Planting bean seeds in different positions with or without light exposure*	*1 hour*
SUN AND SHADOW	*Locate and positionate the digital thermometers inside and outside (in full light, under a tree, close to a window, close to a radiator...)*	*1 hour*
PERIODICAL MEASUREMENTS	*1) measure the growth of the plant with mobile app (Prime ruler) (when possible, the height)* *2) register the temperatures on two entrances table and time series graphs: same position in different times, same times in different positions*	*1 hour a week for a month*
DRAW	*Extract the chlorophyll with ethanol and draw a poster just to create a logo for the project*	*1 hour*
MEET AND GREET	*Chat with other countries and compare the results: e.g. where is the coldest school? Where is the highest range of temperature? What about the differences in plant growth with respect to light exposure?*	*2 hours in different days*

Planting
Outside and Inside

[Measuring plant length with app]

Measures of temperatures Digital thermometer

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MAKING ART WITH PLANTS

CHROMATOGRAPHY

ETHANOL EXTRACT

DRAW A LOGO

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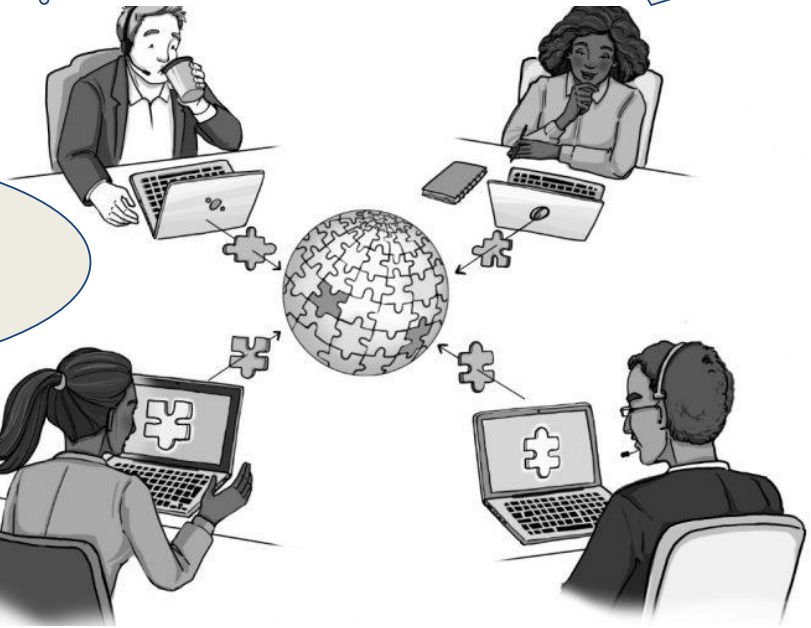
Where is the widest range of temperature?

How does the plant exposure affects its growth?



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Thanks!

Grazie!

Gracias!

Multumesc!