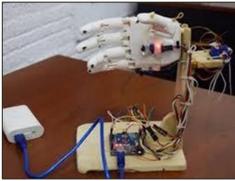


SCIENCE FOR THE YOUNGEST



Bárbara de Aymerich | Escuela de Pequeñ@s Científic@s Espiciencia | Espinosa de los Monteros | Spain

OUR BODY, THE BEST PLACE TO LIVE

VR, AR, inquiry and modeling for the study of the human body in early childhood education

METHODOLOGY

Carrying out different experiences using active methodologies to improve knowledge and care of the human body:

- 1.- **MODELS.** - Representations of many parts of the body joined with simple physico-chemical concepts, using cheap and attractive materials.
- 2.- **NEW TECHNOLOGIES.** - Use of VR and AR as a source of information for the knowledge of the real appearance and functioning of the human body.
- 3.- **INQUIRY.**- Research experiences to improve the knowledge and care of the human body:



- **RESEARCH ON SKIN CARE.** - We are involved in the importance of protecting our skin to avoid the action of the sun's rays, using photochromic beads and different sun creams.

- **RESEARCH ON THE EFFECT OF CARBONATED DRINKS ON OUR TEETH.** - We know that these drinks have acids and sugars that damage enamel and favor the appearance of spots and cavities. Using eggs like tooth enamel (similar composition), different carbonated soft drinks and pH meters, we were able to observe interesting results.

- **BIOMETRIC RESEARCH.** - To know the biometric data and compare them with the standardized tables of the WHO, we calculate our BMI, to compare them with 50th pct. To visually check our results, we made tables and graphs with building blocks. We also conducted surveys on eating habits to appreciate the deficiencies or excesses of some foods.

- **RESEARCH IN NEUROSCIENCE: SPEED OF RESPONSE TO DIFFERENT STIMULES.** - We evaluate the speed of response to tactile, visual and auditory stimuli, using 30 cm plastic rulers in a pair game. We check the variation with respect to the age and sex of the students.

· And so on...



CONCLUSION

The experiences based on models, technological resources and IBL, improved their scientific and mathematical skills, brought them closer to scientific methodology and made them aware of the importance of science in knowing their own body and in achieving and maintaining health.