THE SCIENTIFIC METHOD IN THE BILINGUAL CLASSROOM IN PRESCHOOL AND PRIMARY EDUCATION

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EXPERIENCE THAT I AM GOING TO DEVELOP WITH MY STUDENTS IN CLASS

Activity 1

- **To create static electricity**

    A. **by rubbing a pen with wool**
    B. **by rubbing a balloon with wool**

Activity 2

- **How to turn some oranges in series or parallel into a battery?**

LEVEL: PRESCHOOL

OBJECTIVES OF THE ACTIVITY

- To bring science closer to preschool students.
- To develop interest in science and technology in boys and girls.
- To introduce some concept like electricity, attraction, forces, battery, energy, and so on.
- To use the scientific method.
- To experiment with different materials and situations
- To take out some conclusions.
- To disseminate results

CONTENTS OF THE ACTIVITY

- Introducción "El CSIC en la escuela" methodology
- Science topics
- Production of static charges
- Electricity
- Atraction
- Open and closed electrical circuits
- Uses and functions of electricity
- Work in teams
- Autonomy

NECESSARY MATERIALS

Activity 1.A

- Pen
- Some paper like tissues

Activity 1.B

- Ballons (3)
- Wool sweater or scarf

Activity 2

- Copper electrodes (3)
- Zinc electrodes (3)
- Alligator clip leads (6)
- Red light-emitting diode (LED) (3)
- Lemons (3)

TIMING

Two sessions.

DESCRIPTION OF THE DEVELOPMENT OF THE ACTIVITY

Activity 1. A

- Cut the paper into small pieces
- Rub the pen on the sweater.
- Bring the pen close to the pieces of paper without touching them, to see how they are attracted to the pen.

Activity 1.B

- Blow up the balloon and tie off the end.
- Rub the balloon on the sweater, in one direction.
- Bring the balloon close to the pieces of paper without touching them, to see how they are attracted to the balloon.

Activity 2

- Insert one copper and one zinc electrode into each of the oranges.
- Use alligator clips to connect the electrodes.
- Connect the alligator clip from the zinc electrode to the *shorter* lead of the LED.
- Connect the alligator clip from the cupper electrode to the *longer* lead of the LED.
- Discover how to the LED lights up.