

Project N°: 2021-1-ES01-KA220-SCH-000024429

# EXPERIMENTAL LABORATORY ON NANOTECHNOLOGIES



**NANO**  
**EYE** EARLY  
YEARS  
EDUCATION

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# SAFETY MEASURES



# EXPERIMENT 1: FIRE WITH COCOA POWDER

## • RECOMMENDATIONS

- This experiment must be carried out by adults.
- To light the flame, use a long-handled instrument, either a match or a lighter.
- Be especially careful with cocoa powder on the floor, since it creates a slippery floor. It is recommended to clean the area as soon as possible.
- Perform this experiment in a large room indoors.

# EXPERIMENT 1: FIRE WITH COCOA POWDER

- **PRECAUTIONS**

- Avoid drafts.
- Do not point the funnel in the direction of any person and/or objects that may catch fire.
- Make sure that no one is around when you ignite the cocoa powder.
- Avoid leaving the lighter or matches within the reach of minors.

# EXPERIMENT 1: FIRE WITH COCOA POWDER

- **TIPS TO AVOID ACCIDENTS**

- Do not carry out the experiment if the children are not seated at a safe distance.
- Cocoa powder on the floor can be slippery, be careful once the experiment is done.

# EXPERIMENT 2: WATER DOES NOT FALL

- **RECOMMENDATIONS**

- Las derivadas de utilizar un vaso de vidrio.
- No realizar el experimento con las manos húmedas para evitar que se resbale el vaso.

# EXPERIMENT 2: WATER DOES NOT FALL

- **PRECAUTIONS**

- Always place the glass on top of a large container, to avoid splashes and, in case the glass breaks, the pieces fall inside.

# EXPERIMENT 2: WATER DOES NOT FALL

- **TIPS TO AVOID ACCIDENTS**

- If the glass breaks, never pick up the crystals by hand.
- If there are splashes, dry the area as soon as possible to avoid falls.



# EXPERIMENT 3: SEE BY TOUCHING

There are no noteworthy safety considerations in this experiment.

# EXPERIMENT 4: GROWING BACTERIA

## • RECOMMENDATIONS

- It is recommended to seal the bags with adhesive tape during the growth of the bacteria.
- Discard the bags with their contents without opening them to avoid the escape of bacteria and mold spores two weeks after the experiment was carried out.
- The handling of sprays or alcohol must be carried out by an adult or under the supervision of an adult.

# EXPERIMENT 4: GROWING BACTERIA

- **PRECAUTIONS**

- Do not point any type of spray at anyone.
- Do not place the spray in a place with high temperatures or near an incandescent flame.
- Do not open the bags once they have been closed so that bacteria begin to appear.
- Do not bring alcohol near sources of heat or flames.

# EXPERIMENT 4: GROWING BACTERIA

- **TIPS TO AVOID ACCIDENTS**

- In the event of accidental opening of any of the bags that contain bacteria, it is recommended to quickly insert the entire bag into a new bag, close it, clean the area using bleach and ventilate.

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