

Is the air clean?	
1	Overall aims: Cognitive • To know the air can be contaminated • To identify some of the causes of pollution • To identify ways to control pollution Attitudinal • To know that humans must take care of the planet • To engage in the defense of life in the Earth
2	Vocabulary - keywords Sustainability: pollution; man-made-pollution Science: health; illness Art: to design; to illustrate
3	 Sustainable abilities developed Critical thinking Systemic thinking Problem solving
4	 Discover humans can reduce pollution Discover humans can reduce pollution
5	 Science Technology Art
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Teaching methodologies/activity outline

- 1- Explain the children we are going to check if the air is clean or not.
- 2- Take three caps of mayonnaise and spread them with Vaseline. 10'
- 3- Label each cap with the date we left it.

4- Put the caps in different places: the garden of the pre-school, a balcony of one of the children's home in the center of the city, on a tree in a park near the school, etc. We make sure that nobody touches the caps. (Wait 7 days)

5- After 7 days, verify with a magnifying glass which one of the taps is more dirty which is not so dirty, etc. 10'

6- The teacher talks with the children about the cause of the differences and tells them about the man-made pollution. 30'

7- The children make a simple graph to represent the differences between the level of pollution shown on the caps. 20'

8- The children elaborate posters to make conscious the neighbors about the dangers of pollution for human health and the ways to avoid it.30'

9- The children hang the posters in the neighborhood.

7 Expected learning outcomes

The children will be able to: Know what is pollution and it has man-made causes Know that pollution is bad for human health Create a simple graphic Design and illustrate posters

8 Assessment

Initial assessment: Ask questions to the children to know their background regarding pollution, its man-made causes and its consequences on human health. Formative assessment: Check the graphics representing different levels of pollution

Summative assessment:

Check if the posters include simple ideas concerning the need of a clean air. See if the children are enthusiastic in designing and delivering the posters.



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9 Equipment and materials to be used in learning unit (tools, ingredients etc.) a caps of plastic Magnifying glasses Control list Cardboard; pencils; crayons 10 Kind of setting - lab, kitchen, outdoor etc. 1 2-3 Classroom Different settings to put the caps: garden, park, house's balcony 6-7-8 Classroom Outdoor (neighborhood)

11 References - source:

https://www.educacioninicial.com/c/000/094-experiencias-comprobar-contaminacion-aire/



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