

"Art & Science on Climate, Equality & Peace"

Leonardo 4 Children

Chosen Field: Climate

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We present: Ecolife

Ecolife is a board game that deals with environmental issues in Europe. We developed a game playable to everybody, from children to adults.

The main goal of our project is to sensitize people about European problems that affect the environment, involving the players into a game that subconsciously .

The game is organized into two phases. The first one is about reaching the city in which you have a mission to achieve, in the most eco-friendly way possible.

When you reach the designed city the second phase starts.

This phase involves solving the issue, answering questions about general environmental problems that affect Europe.

Combining the results of the two phases the player that was able to face the problems in the best way wins the game.

In this way we combined both strategy and knowledge, in order to make the game interesting but also useful and educational.

rules:

<https://docs.google.com/document/d/1qQdsnjuwpOXnd3vHjilwo8JsHahD7SOxFNCpe0g0Vo/edit#heading=h.y6xal08nm42i>

-quiz card

<p>What is the main cause of noise pollution in European cities?</p> <ul style="list-style-type: none"><input type="radio"/> Industrial activity<input type="radio"/> Construction work<input checked="" type="radio"/> Transportation<input type="radio"/> Agriculture <p>28</p>	<p>What is the maximum decibel level recommended for human hearing safety?</p> <ul style="list-style-type: none"><input type="radio"/> 50 dB<input type="radio"/> 70 dB<input checked="" type="radio"/> 90 dB<input type="radio"/> 110 dB <p>29</p>	<p>Which city in Europe has the highest noise levels?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Paris<input type="radio"/> Berlin<input type="radio"/> Rome<input type="radio"/> London <p>30</p>
<p>What can be done to reduce noise pollution in urban areas?</p> <ul style="list-style-type: none"><input type="radio"/> Install noise barriers along highways<input type="radio"/> Promote the use of electric cars<input type="radio"/> Implement strict regulations on industrial activity<input checked="" type="radio"/> All of the above <p>31</p>	<p>What are some of the health risks associated with prolonged exposure to noise pollution?</p> <ul style="list-style-type: none"><input type="radio"/> Hearing loss<input type="radio"/> Insomnia<input type="radio"/> High blood pressure<input checked="" type="radio"/> All of the above <p>32</p>	<p>What is the main source of radioactive waste in Europe?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Nuclear power plants<input type="radio"/> Landfills<input type="radio"/> Industrial factories<input type="radio"/> Agricultural activities <p>33</p>
<p>Which country in Europe produces the most radioactive waste?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> France<input type="radio"/> Germany<input type="radio"/> United Kingdom<input type="radio"/> Poland <p>34</p>	<p>What is the most common type of plastic found in ocean debris?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Polyethylene<input type="radio"/> Polystyrene<input type="radio"/> Polypropylene<input type="radio"/> Polyvinyl chloride <p>35</p>	<p>Which of the following is a major contributor to plastic pollution in Europe?</p> <ul style="list-style-type: none"><input type="radio"/> Industrial waste<input type="radio"/> Agricultural waste<input checked="" type="radio"/> Household waste<input type="radio"/> Medical waste <p>36</p>

What are the main technologies used to reduce air pollutant emissions?

- Nuclear energy and coal
- Hydroelectric and wind energy
- Fossil fuel energy
- Solar energy and geothermal energy

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What is the time of year when air pollution peaks in Europe?

- Summer
- Winter
- Spring
- Autumn

20

What causes glacier melting in Europe?

- Air pollution
- Global warming
- Increased snowfall
- Decreased rainfall

21

Which European country has the largest glaciers?

- Italy
- Switzerland
- Norway
- France

22

How much has the average temperature increased in the Alps over the past century?

- 0.5-1 degree Celsius
- 1-2 degrees Celsius
- 2-3 degrees Celsius
- 3-4 degrees Celsius

23

Which activity contributes the most to global warming and glacier melting?

- Agriculture
- Transportation
- Deforestation
- Energy production

24

What is causing sea levels to rise in Europe?

- Volcanic eruptions
- Decreased rainfall
- Increased snowfall
- Melting glaciers

25

How much have sea levels risen in Europe over the past century?

- 10-20 cm
- 20-30 cm
- 30-40 cm
- 40-50 cm

26

What are some of the strategies that can be used to adapt to sea level rise?

- Building seawalls and levees
- Relocating populations to higher ground
- Planting more trees
- All of the above

27

What is the main cause of acid rain?

- Volcanic activity
- Atmospheric pollution from industries
- The greenhouse effect
- Global warming

1

Which materials are most vulnerable to the effects of acid rain?

- Glass and wood
- Steel and aluminum
- Marble and granite
- Cement and plastic

2

What are the main factors that influence the formation of acid rain?

- Geographic location and climate
- Presence of active volcanoes and solar radiation
- Use of fossil fuels
- Consumption of electricity and generation of waste

3

What are the two main acids that form acid rain?

- Carbonic acid and nitric acid
- Hydrochloric acid and sulfuric acid
- Phosphoric acid and hydrochloric acid
- Sulfuric acid and nitric acid

4

In what historical period was the formation of acid rain first observed?

- In the 20th century
- In the 16th century
- In the 18th century
- In the 19th century

5

What is the typical pH of acid rain?

- 4-4.5
- 5.5-6
- 7-7.5
- 8-8.5

6

What are the main factors that influence the deposition of acid rain?

- Temperature and humidity
- Presence of magnetic fields
- Atmospheric pressure and wind speed
- Presence of ionizing radiation

7

What are the consequences of acid rain on the soil?

- Reduction in nutrient availability for plants
- Increase in soil fertility
- Increase of soil erosion
- No effect

8

What are the main impacts of acid rain on wildlife?

- Increase in predator populations
- Decrease in animal reproduction
- Reduction of biodiversity
- No effect

9

What is the main cause of forest fires?

- Lightning
- Human activity
- Volcanic eruptions
- Acid rain

10

What is the effect of forest fires on biodiversity?

- Increase in biodiversity
- Decimation of fauna and flora
- Increase in the number of invasive species
- No effect on biodiversity

11

What is the best method for preventing forest fires?

- Burning dry vegetation
- Using fire to clear the land
- Removing dry vegetation
- Carefully monitoring vegetation

12

What is the cost of forest fires in economic terms?

- No economic cost
- Low costs
- Medium costs
- High costs

13

What are the recovery strategies after forest fires?

- Planting new generation trees
- Using natural vegetation
- Doing nothing and letting nature take its course
- Building new homes and infrastructures

14

What is the main cause of smog in Europe?

- Use of renewable energy sources
- Greenhouse gas emissions
- Use of eco-friendly products
- Usage of electronic devices

15

What are the main effects of smog on human health?

- Decreased fertility
- Respiratory and cardiovascular problems
- Decrease in vision
- More risk of getting sick

16

What are the main sources of air pollutant emissions that contribute to smog?

- Agriculture
- Tourism and public transportation
- Outdoor activities
- Usage of motor vehicles

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What are the main European cities affected by smog?

- Paris and Madrid
- Rome and Athens
- London and Berlin
- Warsaw and Prague

18

What is the current recycling rate for plastic in Europe?

- 10%
- 25%
- 50%
- 75%

37

What is the most common type of plastic packaging found in ocean debris?

- Plastic bottles
- Plastic bags
- Plastic straws
- Plastic food containers

38

What can individuals do to help prevent glacier melting?

- Use public transportation instead of driving
- Reduce energy consumption at home
- Plant trees to absorb carbon dioxide
- All of the above

39

What can individuals do to reduce their exposure to noise pollution?

- Wear earplugs or noise-cancelling headphones
- Reduce the volume of personal music devices
- Plant trees to absorb carbon dioxide
- All of the above

40

What is the role of microplastics in plastic pollution?

- They are biodegradable and therefore not harmful
- They can be ingested by marine life and enter the food chain
- They are too small to cause any harm
- They are not found in oceans

41

Which European country is most affected by rising sea levels?

- Netherlands
- Spain
- Poland
- Greece

42

What is the main contributor to water pollution in European rivers?

- Industrial waste
- Agricultural runoff
- Sewage discharge
- Oil spills

43

Which energy source is commonly used in Europe to reduce greenhouse gas emissions?

- Solar power
- Nuclear energy
- Coal-fired power plants
- Oil and gas

44

Which European river is severely impacted by pollution from industrial activities?

- Rhine River
- Volga River
- Danube River
- Seine River

45

-mission card



- character cards



-pawns



-board

