

Climate Change 101 Test

Name: _____

Use these questions to create a test for your class. They relate directly to the presentation given by CCNL. There are more questions than you need. Create your own version of the document. Delete what you don't want. Use what you do :)

Multiple Choice Questions

1. What is climate?
 - A) The weather you see outside your window
 - B) Long-term weather patterns in a particular place at a particular time
 - C) The temperature of the atmosphere
 - D) The amount of rain in a specific area

2. How do scientists know about past climates?
 - A) By looking at tree rings and ice cores
 - B) By looking at animal migration
 - C) By looking at current weather patterns
 - D) By looking at satellite images

3. What is the primary cause of climate change according to scientists?
 - A) Recycling
 - B) Cutting down trees
 - C) Planting gardens
 - D) Burning fossil fuels

4. Why is burning fossil fuels a problem?
 - A) It creates more trees
 - B) It releases harmful gasses like CO₂
 - C) It cools the planet
 - D) It helps animal migration

5. Which of the following is NOT a way to reduce our impact on the climate?
 - A) Riding a bike instead of driving a car
 - B) Using renewable energy sources like solar power
 - C) Using a gas powered lawn mower
 - D) Recycling paper and plastic

6. What is the greenhouse effect?
- A) The cooling of the Earth's atmosphere
 - B) The trapping of heat in the Earth's atmosphere by gasses like CO₂
 - C) The increase in rainfall due to climate change
 - D) The melting of polar ice caps
7. How does climate change affect sea levels?
- A) It causes sea levels to decrease
 - B) It has no effect on sea levels
 - C) It causes sea levels to rise
 - D) It causes sea levels to rise and fall
8. What is one way to reduce food waste and help the environment?
- A) Composting food scraps
 - B) Throwing away leftovers
 - C) Buying more food than needed
 - D) Eating out every day
9. What is one example of a positive climate action?
- A) Driving a gas car through a 'drive-thru'
 - B) Using plastic bags frequently
 - C) Reusing bottles as plant pots
 - D) Cutting down trees
10. What do the 3 'Rs' stand for in terms of helping the environment?
- A) Review, Renew, Reclaim
 - B) Reduce, Recycle, Regrow
 - C) Reuse, Reinvent, Reduce
 - D) Reduce, Reuse, Recycle
11. What is the purpose of the 3 'R's'?
- A) To increase our use of natural resources
 - B) To have a positive effect on nature
 - C) To heat the environment
 - D) To use more fossil fuels
12. What does the 3 'R's' require?
- A) Unconscious action
 - B) Deliberate self control
 - C) Ignoring the environment
 - D) Only recycling

Short Answer Questions

1. Explain two ways Indigenous science contributes to understanding climate change. (2 marks)

2. Fill in the Blanks (2 marks)

Choose from the following words: heat, water, oil, fossil, paper, energy

a) The width of a tree ring indicates how much _____ the tree got that year and the warmth of the climate.

b) The primary cause of climate change is the burning of _____ fuels.

3. Describe how the greenhouse effect works. (2 marks)

4. Why does the temperature change affect our weather? (2 marks)

5. What is one potential consequence of climate change on the environment? (2 marks)

6. Give one example of a renewable energy source. (1 mark)

7. Match the following actions with their environmental impact by drawing a line between the two parts: (2 marks)

Action
Riding a bike instead of driving
Using disposable plastic bags
Recycling paper and plastic
Cutting down trees
Doing a community clean-up
Growing gardens
Using renewable energy options
Creating, buying, and selling things locally

Consequences
Increase pollution
Destroy habitats
Provides food, oxygen, shade, and absorbs carbon
Reduces use of gasoline
Reduces transportation emissions, supports local economy
Connects us with nature and our community, and makes a statement.
Conserve resources
Reduces the need for fossil fuels and decreases pollution

8. Phrase Match: Match the following phrases by drawing a line between the two parts: (2 marks)

Phrase
Reduce, Reuse, Recycle
Refuse, Rethink
Indigenous science
Greenhouse effect

Phrase Match
Trapping heat in Earth's atmosphere
Use less energy, pollution, and resources wisely
Changing the decisions we make, and the processes for using resources.
Many observations of nature and its patterns, as well the human effects on nature's health

9. Table: Fill in at least three 'Positive' Climate Actions and their corresponding benefits. (3 marks)

Positive Climate Actions	Benefits

10. Short Sentence Response: Why is it important to have an emotional response to climate change, and how can understanding different emotions help us? (2 marks)

Answer Sheet

Multiple Choice:

1.	B		5.	C		9.	C
2	A		6.	B		10.	D
3.	D		7.	C		11.	B
4.	B		8.	A		12.	B

Short Answer

- Indigenous science contributes to understanding climate change through passing down generations of knowledge about how to respect and treat the land, about what nature's gifts are, how to use only what you need, the climate and animal patterns, and the effects of human actions.
- Rain, Fossil
- The greenhouse effect occurs when gasses (CO₂) emitted from burning fossil fuels trap heat in the Earth's atmosphere, leading to a warming effect similar to a greenhouse.
- Temperature changes air movement and the water cycle, causing changes in cloud formations, rain, storms, heat and drought.
- Examples might include:
 - a) the disruption of animal habitats, leading to changes in migration patterns or loss of habitat
 - b) the melting and loss of sea ice, leading to changes in sea temperatures and currents, habitat loss, or loss of culturally significant grounds
 - c) flood or drought impacts on farm land, impact food production / damage
- Responses for renewable energy sources could include Hydro, Wind and Solar.
- The matches are:
 - Riding a bike instead of driving: Reduces use of gasoline
 - Using disposable plastic bags: Increase pollution
 - Recycling paper and plastic: Conserve resources
 - Cutting down trees: Destroy habitats
 - Doing a community clean-up: Connects us with nature and our community, and makes a statement.

- Growing gardens: Provides food, oxygen, shade, and absorbs carbon
Provides food, oxygen, shade, and absorbs carbon
- Using renewable energy options: Reduces the need for fossil fuels and decreases pollution
- Creating, buying, and selling things locally: Reduces transportation emissions, supports local economy

8. The matches are:

- Reduce, Reuse, Recycle: Use less energy, pollution, and resources wisely
- Refuse, Rethink: Changing the decisions we make, and the processes for using resources.
- Indigenous science: Many observations of nature and its patterns, as well the human effects on nature's health
- Greenhouse effect: Trapping heat in Earth's atmosphere

9. Many actions and benefits exist, and actions and benefits are shared in the answers to question 7.

10. Climate change affects people differently based on their living conditions and locations, so sharing our feelings can help others understand the different impacts of climate change. Having an emotional response is important as it helps us understand different perspectives and treat people kindly. Understanding different emotions is important for self-care and caring for others. It gives us reason to apply 'positive climate action' in our community in order to look after our environment.