

# Climate Change and Calgary

## Teacher's Answer Sheet

Instructions: This worksheet can be filled out during the *Climate Change in Calgary* presentation, hosted by The City of Calgary Climate Change Program at the Mayor's Environment Expo. While watching the presentation, try to answer as many questions as you can by filling in the blanks below. In some cases, your host will draw attention to the question explicitly, and give you several seconds to guess the answer before revealing it. In other cases, the host may mention the answer and move on without drawing attention to it, so you'll have to pay close attention! At the end of the presentation, all of the answers will be revealed.

Questions:

1. When talking about climate change, what is meant by the term *mitigation*?

Action to reduce emissions that cause climate change.

2. When talking about climate change, what is meant by the term *adaptation*?

Action to manage the risks of climate change impacts.

3. If weather was like your mood, then climate would be like your *personality*.

4. Name one example of a greenhouse gas: *carbon dioxide, methane, water vapour, etc.*

5. In Alberta, our mean provincial temperature has increased by approximately *1.4°C* over the past century.

6. In Calgary, energy used in our homes (residential buildings) accounts for *29%* of our total city-wide greenhouse gas emissions.

7. In 2015, Canada signed the *Paris* Agreement along with more than 190 other countries.



8. The City of Calgary has approved a strategy to reduce greenhouse gas emissions and build resilience to climate change. That strategy is called: **Climate Resilience Strategy**.

9. The City of Calgary's **2050** target is to reduce greenhouse gas emissions by **80%** below **2005** levels.

10. Name one thing The City of Calgary is doing to reduce greenhouse gas emissions in Calgary: **Many correct answers apply. E.g. Implementing an Electric Vehicle Strategy**.

11. What is a *climate change hazard*? **Any acute event or chronic trend that is amplified by climate change**.

*Note: There are many correct answers for the following fill-in-the-blank questions. During the presentation we will give several examples of correct answers, but there are many more answers that could be correct!*

12. Give one example of an impact that could be associated with extreme heat events: **Degradation or damage to roadways from hot conditions**.

13. Give one example of an impact that could be associated with:

- shifting seasons: **Misalignment of lifecycle events in nature; increase in health issues from pests like mosquitos and ticks**.
- with short duration, high intensity storm events: **Electrical blackouts or interruptions**.
- with winter storms: **Damage to trees in Calgary**.
- with flood events: **Flooded basements**.



- with meteorological drought: **Poor growing conditions for local plants.**
- wildfires: **Health issues from poor air quality in Calgary.**

14. Name one action The City of Calgary is taking to build resilience to, or prepare for climate change impacts? **Upgrading the Glenmore Reservoir to hold more water.**

15. Name one thing you could do personally to reduce greenhouse gas emissions in the transportation category: **Walk or bike instead of driving.**

16. Name one thing you could do personally to reduce greenhouse gas emissions in the lifestyle category: **Grow your own food instead of buying produce that is grown far away.**

17. Name one thing you could do personally to reduce greenhouse gas emissions in the home energy category: **Wash clothes in cold water and hang clothes to dry.**

18. Name one thing you learned in this presentation that you didn't know before!

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*Thanks for participating!*