

Confidential & Optional Assessment for the World Climate or World Energy Exercise Post-Survey

Thank you for participating in the World Climate or World Energy role-play simulation. We now ask you to complete this short survey about your understanding of climate change. This survey will take about ten minutes to complete. The results will be compared to those from other individuals who have participated in the workshop to gain a better picture of its impact and will help us to improve the experience.

Your participation in the survey is voluntary. We ask for your name only to be able to match your pre- and post-surveys to one another. Your name will then be deleted and all analysis will be done using the anonymous data. Surveys will be collected and processed by someone other than your instructor. Thank you very much for participating.

NAME: _____

1) How would you rate your knowledge about climate change?

- I have no knowledge of climate change
- Very limited; I have heard about it, but I am not aware of the facts
- I have gathered some information about the subject
- I have been studying the effects of climate change
- I am an expert on climate change

2) Do you think that climate change is happening?

Yes....

- I am extremely sure
- I am very sure
- I am somewhat sure
- I am not at all sure

No....

- I am extremely sure
- I am very sure
- I am somewhat sure
- I am not at all sure
- Don't know

3) Assuming climate change is currently happening, do you think it is:

- Caused mostly by human activities
- Caused mostly by natural changes in the environment
- Caused equally by both
- Don't know

4) How important is the issue of climate change to you personally?

- Extremely important
- Very important
- Somewhat important
- Not too important
- Not at all important

5) How worried are you about climate change?

- Very worried
- Somewhat worried
- Not very worried
- Not at all worried

6) Please rate how you feel about climate change. Fill in one bubble between each set of bipolar adjectives. Select the bubble that is in the direction of your feelings.

	←—————→					
Hopeless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Hopeful
Discouraged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Empowered
Indifferent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Engaged
Not Guilty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Guilty
Calm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Outraged/Angry
Unconcerned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Alarmed
Not afraid at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very afraid

7) Assuming climate change is happening, what are its expected impacts over the next few decades?

	Extremely likely	Somewhat likely	Somewhat unlikely	Not likely	I don't know
a) Increased temperatures globally.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Decreased temperatures globally.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) An overall increase in clean, potable water globally.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) An overall decrease in clean, potable water globally.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Increased incidence and intensity of heat waves.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Increased rates of extinction of plant and animal species.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) An overall decrease in global food production.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) An overall increase in global food production.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Increased global sea level.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j) Increased intensity of storms across many regions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k) No changes beyond natural variability in weather.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

8) How likely are you to do the following?

	Very likely	Somewhat likely	Unlikely	Will not do
a) Take action to reduce your personal carbon footprint (e.g., ride your bike more, turn off lights when they are not needed, purchase renewable energy sources if available from your utility, etc.).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Discuss climate change with your family and friends.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Discuss climate change with your peers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Take some form of political action (e.g., write to your government officials, sign a petition, participate in a town hall meeting or rally) in support of climate change policy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9) To what extent do you agree with the following statements?

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
a) With the current rate of heat-trapping/greenhouse gas emissions, carbon dioxide levels will continue to increase because emission rates are higher than the rate at which carbon dioxide is being taken out of the atmosphere.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) It makes sense to wait and see what the climate impacts are before taking action.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Changes in policies and energy systems are needed in order to effectively address climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) New technologies will be developed that will solve the problems of climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Using current technologies, it is possible to reduce emissions and address climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) We could effectively address climate change if there were strong political and social will to do so.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Successfully addressing climate change will also improve environmental health, beyond the effects of climate itself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Successfully addressing climate change will have a positive impact on social justice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10) Atmospheric carbon dioxide (CO₂) concentrations are currently around 400 ppm (parts per million). Which of the following emissions pathways in Diagram 2 is most likely to meet the goal of stabilizing atmospheric CO₂ concentrations around 450 ppm (Diagram 1)?

Diagram 1 – Goal for CO₂ in Atmosphere

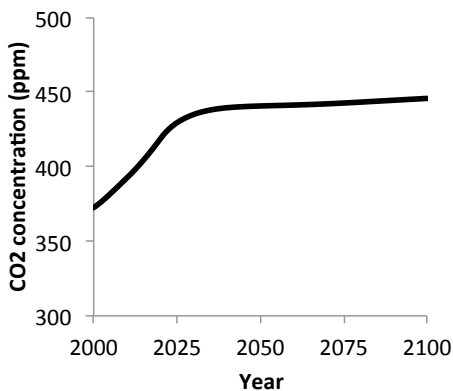
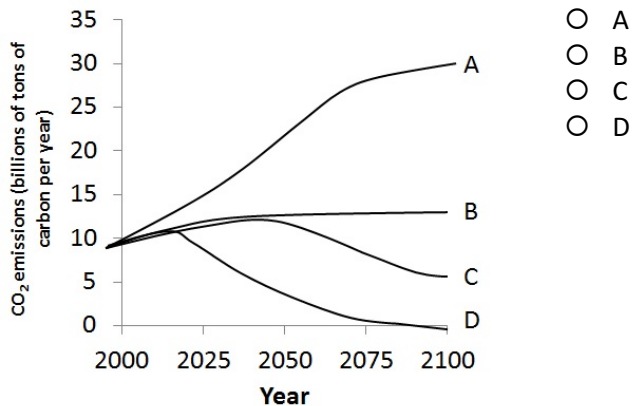


Diagram 2 – Potential Emission Pathways to Reach Goal



- A
- B
- C
- D

11) To what extent do you agree with the following statements?

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
a) The government interferes far too much in our everyday lives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Sometimes government needs to make laws that keep people from hurting themselves.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) It's not the government's business to try to protect people from themselves.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) The government should stop telling people how to live their lives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) The government should do more to advance society's goals, even if that means limiting the freedom and choices of individuals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Government should put limits on the choices individuals can make so they don't get in the way of what's good for society.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) We have gone too far in pushing equal rights in this country.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Our society would be better off if the distribution of wealth was more equal.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) We need to dramatically reduce inequalities between the rich and the poor, whites and people of color, and men and women.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j) Discrimination against minorities is still a very serious problem in our society.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k) It seems like blacks, women, homosexuals and other groups don't want equal rights, they want special rights just for them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l) Society as a whole has become too soft and feminine.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12) To what extent do you agree with the following statements?

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
a) The World Climate exercise was engaging.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I plan to tell others about this experience.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Through this experience, I gained a better understanding of different countries' perspectives on climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I cared about the outcomes of the exercise.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I identified with my role in the exercise.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) This exercise was a good learning experience.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) As a result of this experience, I have a sense of urgency to take action to combat climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) As a result of this experience, I want to learn more about leading or effecting change in the area of climate change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13) How has participation in the exercise affected your desire to learn more about the following?

	More interested	No change	Less interested
The science of climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Potential solutions for mitigating the effects of climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Politics as it relates to climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economics as it relates to climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Energy policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14) How has your motivation to take action to address climate change been affected by your participation in the exercise?

- Increased a lot
- Increased a little
- Stayed high
- Stayed low
- Decreased a little
- Decreased a lot

15) What is your gender?

- Female
- Male
- Other/don't wish to specify

16) What is your age?

- (for middle and high school): Up to Grade 8 Grade 9-12
- (for adults): 18-24 25-35 36-50 51-75 76+

17) What Is Your Ethnicity?

- African
- Asian
- Hispanic
- Pacific Islander
- White
- Other/don't wish to specify

18) What is your home country? _____

19) What is the highest level of education achieved by one or both of your parents or guardians?

- No school
- Elementary school only
- Secondary (high) school
- Some postsecondary (college) education
- Bachelor's degree or beyond

20) What is the highest level of education that you have achieved?

- No high school degree
- Secondary (high school) degree
- Some postsecondary (college) education
- Bachelor's degree or beyond

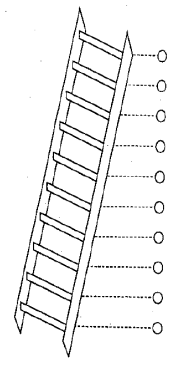
21) Were you in a science-related major in your postsecondary education?

- Yes
- No

22) To what extent are you in favor of the government placing regulations on the free market?

- Strongly in favor
- Somewhat in favor
- Neutral
- Somewhat opposed
- Strongly opposed

23) Think of this ladder as representing where people stand in your country. At the top of the ladder are people who are best off—those who have the most money, the most education, and the most respected jobs. At the bottom are the people who are worst off—who have the least money, the least education, and the least respected jobs or no job. The higher up you are on this ladder, the closer you are to the people at the very top; the lower you are, the closer you are to the people at the very bottom. When considering your overall life circumstances, where would you place yourself on this ladder? **Please fill in the circle that best represents where you stand at this time in your life compared to other people in your country.**



OPEN-ENDED QUESTIONS (OPTIONAL)

24) How has participating in the World Climate/Energy Exercise affected your understanding of climate change, if at all?

25) Was there anything about World Climate/Energy that surprised you (such as what you took away from the experience or what happened during the exercise)? Why or why not?

26) How did participating in the World Climate/Energy Exercise make you feel? Why?

27) Has participating in World Climate/Energy affected how motivated you are to address climate change? If so, what do you plan to do?

28) What was the best aspect of the World Climate/Energy Exercise?

29) How would you improve the World Climate/Energy Exercise?

Thank you very much!