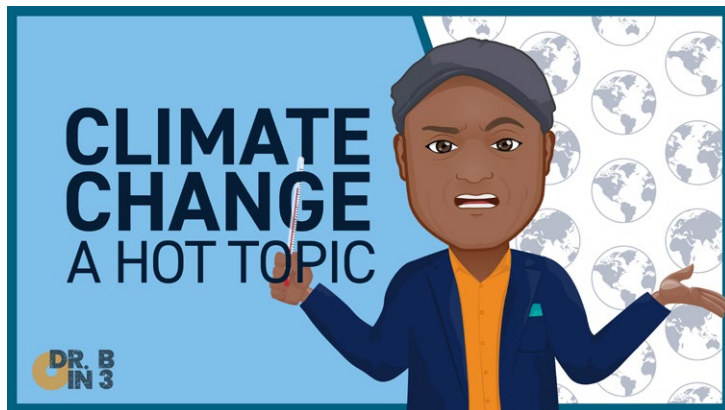


CLIMATE CHANGE: A HOT TOPIC



This topic is a hot one! That's right— join Dr. B as we talk all things climate change!



<https://www.youtube.com/watch?v=ZaZUej8gesE>

Quick Questions

1. Have you heard of climate change?
2. Have you ever heard or talked about the difference between climate and weather?
3. What are some ways that humans' lifestyle choices impact the Earth?
4. What is one small change you could make to help the environment today?
5. What natural disasters have affected you or people you know?

DEEP DIVES

1. There's a lot of "information" out there about climate change – some of it is accurate, and some of it isn't. Have you ever looked for scientific information on climate change or any other topic before? If yes, where did you look and why? If no, where would you look and why? How would you know if the information you're getting is factual?
2. Are you concerned about climate change? Why or why not? What steps should or could individuals take based on your answer? What about corporations? Governments? Who is responsible for taking action?
3. Imagine one person in your life that you might want to talk to about climate change. How would you feel about that conversation? How would you start the conversation? What would your goal be for that conversation? For example, would you want to teach them or to learn from them? Would you want to win a debate? Would you seek support for your position?
4. Dr. B explains that just a one-degree difference can have a significant outcome. Can you think of anything where a seemingly very small change can have a profound effect on the outcome? What clues would tell you that this small change actually had an impact on the outcome? How would you know it was not just a coincidence?
5. Imagine a future world that has successfully stopped the impacts of climate change. What are three things you would see in that world? Optional Follow-Up: What barriers are there today to those three things happening? What changes do you think would make overcoming those barriers possible?

Engaging in Science Discussions



Recommended Grade Level: Middle and High School

Objective: To engage in open-ended discussions about critical science topics. While leading these discussions, it is important to ensure that everyone is heard, and everyone is treating one another with respect. There is no “right answer” during these discussions, and it’s okay to respectfully disagree.

Additional Notes: We recommend having these discussions multiple times with the same group of participants. This provides the opportunity to explore different topics and improve one’s abilities to have successful conversations about STEM topics. Quick Questions are optional and are recommended to be used as warm-up questions.

Materials: TV or projector Paper and writing utensils

TIMELINE (30 – 40 MINUTES)

5 min	10 min	5 min	10 min	10 min <i>(optional)</i>
Intro + prompts	Watch segment	Think/write time	Share with partner	Small groups

Intro (5 min) Before starting, select one Deep Dive question. Tell the group you will be asking them a question that has no right or wrong answer. After they watch the clip, they will have time to think about and write their response. They will share their response with a partner or small group. Now share the question you selected.

If participants are new to these sorts of discussions, you may want to review the following concepts:

- When you are sharing your responses, provide reasoning and evidence. Reasoning is your own thinking behind your answer. Evidence is facts that support your answer, such as historical facts or scientific facts. You may also have experiences from your own life that support your answer.
- When listening to your classmates, ask questions. The purpose of questions is to better understand their thought process, not to challenge them. Some ways to frame questions are: “I didn’t understand X.” “Could you explain Y again?” “What do you mean by Z?”
- If someone asks you questions, provide clarification. Explain your reasoning and evidence. Remember that there are no right or wrong answers.

Watch the segment (10 minutes)

Think/write time (5 minutes): Participants write down their answers

Share with a partner (10 minutes): Pair up participants. Each person has 5 minutes to share their response and answer questions from their partner. Then switch so each partner gets a turn.

(Optional) Small groups (10 minutes): Put participants in groups of 4 for share-outs and conversations.

(Optional) Homework prompts: Expand your response into a report, picture, poem, essay, short story, song, or performance. Or, write your own discussion question for the group.