

STEM Expo Lesson: “Climate change as an issue to anchor Science & Math Instruction”

Objectives:

- Introduce students to 1) the science of climate change, 2) the need for media literacy, and 3) varying perspectives on CC.
- Engage learners in reading a science text.

Teaching Sequence

Time	Activities	Materials	Notes
20 min	Learners read excerpt from <i>Climate Change: Evidence & Causes</i> Learners use a Text Rendering strategy • Highlight sentence • Share among groups	Copies of reading (also available on website)	Could also use a summarizing strategy or note-taking prompts.
5 min	Summarize key messages from the report	PPT	
10 min	Learners explore sources of the climate change report. 7 small groups review website for one of the source organizations and share their findings	“Know your sources” handout Website with source links	
- - - - -	In full lesson with students, I would help students deconstruct the greenhouse gases model and the graphs. For the graphs, we could use a jigsaw strategy.	PPT	
15 min	Introduce the controversy associated with CC: Teacher asks why is CC controversial. Students arrange themselves along an agreement continuum (strongly disagree on one side of the room/strongly agree on the other side) Teacher presents summary statistics of CC views Teacher reviews scientific consensus on CC	PPT Posted signs: “Strongly Agree” “Strongly Disagree”	Strategy for formative assessment
5 min	Introduce the writing assignment	PPT website	
5 min	Introduce issue based teaching		