

Chapter 19 Global change

Chapter 19 FRQ 2006*, 2009, 2010*, 2015, 2019

View→ 5 things you need to know about water and climate:

<https://www.weforum.org/agenda/2016/01/five-things-you-need-to-know-about-water-and-climate>

Bill Nye and Climate Change:

http://www.smithsonianmag.com/videos/category/3play_1/climate-change-101-with-bill-nye-the-science/?no-ist

and then.....

<http://www.bing.com/videos/search?q=Bill+Nye+Greenhouse+Effect&&view=detail&mid=84B91B8ABC120951037C84B91B8ABC120951037C&FORM=VRDGAR>

Module 62

What role does the greenhouse effect play in global climate change? Draw and label UV radiation and the paths and consequences of it?

What determines the warming potential of a greenhouse gas?

Greenhouse Gas	Source (natural and anthropogenic)	Concentration in 2010	GW potential (over 100 years)	Duration in atmosphere

How can you personally decrease the amount of at least 2 different gases emitted?

Review carbon cycle and nitrogen cycle.

Figure 62.6 Which of the 3 anthropogenic sources of GHG can humans decrease most easily and how?

Module 63

Figure 63.2 What are 3 reasons China is the leading CO₂ emitter in the world?

Who are the largest per capita producers? Why?

Be comfortable discussing the trends in CO₂ amounts throughout time and how we find those past CO₂ amounts.

Draw an example of both a + and - feedback loop in climate change.

Figure 63.11 Where have temperatures increased the most? Where are they predicted to increase more?

Module 64

2009 and 2010 FRQ: Can you discuss at least 2 possible consequences of climate change on specific locations (ie: the Colorado River, or coastal ecosystems)? Or a negative economic impact on human populations? And, what about two possible government strategies to discourage people from settling in coastal areas?

What are possible changes to the economy, environment, or ecosystems possible due to climate change?

How is the Kyoto Protocol an example of the precautionary principle?

Greenhouse effect labeling (make two changes to arrows to accomplish 1-5 p667)



