Lab 17a: sky: layers, climate change

Sections:

- Layers
- Temperature
- Density
- Composition
- Ionosphere-radio reflection
- Muons
- Troposphere-weather
- Stratosphere-flight
- Ozone layer
- Climate change

Part one: layers (onion boy)

1. look up the layers of the atmosphere
2. where is weather located?
3. where do planes fly to the mainland?
4. why does it get colder as you go up at first?
5. what are airplane contrails made of? why?
6. why does the thermosphere get hot?
7. why is it also called the ionosphere?
8. why is this important for satellites and radio waves?
9. locate the ozone layer-what gas is there?
10. what does it protect us from?
11. why is that important?
12. look up the "ozone hole"-where is it?
13. what happened to it?
14. what about now?
15. make a huge labeled diagram of our atmosphere to scale, both at night and daytime
16. check out this video around 1:18 for a look at what the atmosphere looks like when you re-enter from space: https://www.spacex.com/launches/mission/?missionId=starship-flight-5

Part two: climate change

1. look up the term "greenhouse gas"
2. why is it called that?
3. what on a greenhouse is like the gases?
4. which ones are the most potent?
5. which ones last the longest?
6. what would the temperature of the planet be with NO greenhouse gases?
7. what do plants do with carbon dioxide and oxygen in the daytime?
8. if they die, and millions of years later, we burn them as fossil fuels, what do they release?
9. why has the temperature of our planet increases like crazy since about 1850?
10. what happened then?
11. how will this impact the level of the sea?
12. how will this impact glaciers?
13. look up the "doomsday glacier"-how big is it, and where?
14. what would happen if this melted?
15. the year is 2100, you are about 90 years old, what does the beach around our island look like?
16. draw an island map of the shore now and when you are 90

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