week one 8.16.23

Welcome to APES!

Resources:

- elab.hpa.edu also known as elab.local (on campus) or elab.kamuela.org (off campus)
- **Bozeman science videos**
- https://elab.local/apes/videos/bozeman_science/
- http://www.bozemanscience.com/ap-environmental-science
- **Science review**
- https://elab.local/apes/texts/sci_review-ocr/
- **AP central join codes**
- APES D XM624X
- APES E PVYZGG
- Text: Friedland and Relyea 4th edition, with sapling (trying this out)
- Other texts located here: https://elab.local/wiki/projects/apes/apes.html
- weblog is our main materials platform (older ones are on physics.local)

Discussion points:

1. control vs. variable? dependent vs. independent variable?
2. x vs. y : making a graph
3. precision vs. accuracy: accuracy: actual truth, precision: how detailed
4. mks system: kg, km, m3
5. prefixes kilo, mega, giga, centi, milli, micro, nano
6. unit conversion: km to millimeters
7. temp: K, C, F

quiz on these next week...

Homework:

- Get the text (online or print)
- Watch Bozeman science video 001
- Check MyHPA for updates

Day 2:

- Pick three topics (yours or others)
- It is now 2056, you are about 50 years old
- What has changed in each of the three?
- Visualize solutions: what is needed, by whom?

Global footprint:

https://www.footprintnetwork.org/resources/footprint-calculator

Cause and effect:

Why does the girl think her dad is an alien?

https://www.youtube.com/watch?v=sVRAtQ7XjkM

What don't we see between the kiss and him driving home?

https://www.youtube.com/watch?v=g7_slK24lXU

Monty Python Witch scene:

https://www.youtube.com/watch?v=Ii68tPliZOo

1. Can you follow cause and effect?
2. What is their logical path?
3. Why do folks associate fracking with earthquakes? (chapter one in the text)
4. Why do folks associate fossil fuels with global heating?
5. Who might be against this line of reasoning and why?

Scientific method:

1. control vs. variable? dependent vs. independent variable?
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