

Mr. Duxbury - Homework Summary Week of 5/4-8
Video Office Hours – Tues-12-2, Thurs 9-11 (upon request)

Physical Science = This week you have 3 assignments

- 1) NEED – Hydrogen
- 2) NEED- Measuring Electricity
- 3) Bowseat Project – Brainstorm / Mind map is due Tuesday
 - I have had many video conferences, that were all announced, in fact special ones added, to explain the project and what you needed to do for the Mindmap. If you missed the meetings, it is your responsibility to email me when, by Friday we can have a videoconference.

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

Enviro Sci =

- 1) NEED – Hydrogen
- 2) NEED- Measuring Electricity
- 3) Bowseat Project – Brainstorm / Mind map is due Tuesday
 - I have had many video conferences, that were all announced, in fact special ones added, to explain the project and what you needed to do for the Mindmap. If you missed the meetings, it is your responsibility to email me when, by Friday we can have a videoconference.

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

CA Oceans =

- Reflection due Monday 4th
- Final Draft Due by May 8th
 - o Includes: Bowseat Info Form, Your piece, reflection, works cited (proper formatting)

Mr. Duxbury - Homework Summary Week of 5/11-15
Video Office Hours – Tues-12-2, Thurs 9-11 (upon request)

Physical Science = This week you have 3 assignments and an individual project video conference.

- 1) Video Lab- Can coral reefs survive climate change?
- 2) Video Lab- How poop shapes the world.
- 3) Video Lab- Engines of destruction
- 4) Bowseat Project – Meet with Duxbury
 - By this time you should have a good idea about your project and maybe a few question, YOU need to email me to setup a conference time (~15mins) to work through your project. This is for BIG points so make sure you do this. Your Rough Draft is due Tues 19th (next week)

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

Enviro Sci = This week you have 3 assignments and an individual project video conference.

- 5) Video Lab- Can coral reefs survive climate change?
- 6) Video Lab- How poop shapes the world.
- 7) Video Lab- Engines of destruction
- 8) Bowseat Project – Meet with Duxbury
 - By this time you should have a good idea about your project and maybe a few question, YOU need to email me to setup a conference time (~15mins) to work through your project. This is for BIG points so make sure you do this. Your Rough Draft is due Tues 19th (next week)

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

Mr. Duxbury - Homework Summary Week of 5/18-22

Physical Science = This week you have 2 assignments and your Rough Draft due.

- 1) Video Lab- Bioluminescence
- 2) Video Lab- What if we could see in Infrared.
- 3) Bowseat Project – Rough Draft due Tuesday 19th
 - You can email me, GMAIL me, or submit in classroom.

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

Enviro Sci Physical Science = This week you have 2 assignments and your Rough Draft due.

- 1) Video Lab- Bioluminescence
- 2) Video Lab- What if we could see in Infrared.
- 3) Bowseat Project – Rough Draft due Tuesday 19th
 - You can email me, GMAIL me, or submit in classroom.

Several students have not completed past week assignments. As there is no penalty for late work, if you have missing work, get it turned in. If you have questions, please ask.

Hydrogen

Please answer the following questions from the website NEED Secondary Energy Infobook
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.need.org/wp-content/uploads/2019/10/Secondary-Energy-Infobook.pdf>

* Required

1. Email address *

2. Name *

3. What's in a hydrogen atom? *

4. Is there a lot of Hydrogen in the universe? Explain *

5. What is fusion? *

6. What is CH₄ *

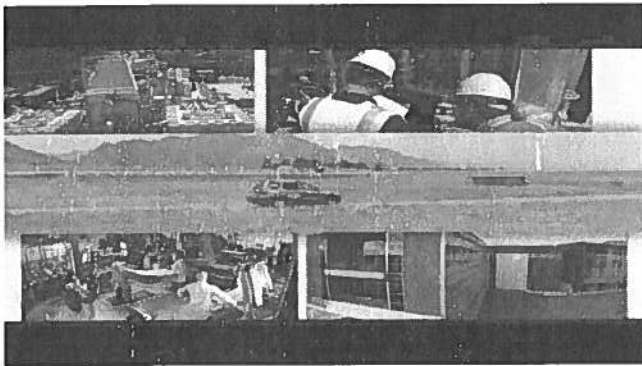
7. What does electrolysis do? Explain *

8. What is currently cheaper, electrolysis of hydrogen or refining petroleum? Explain *

9. What do we use most of the hydrogen we produce for currently? *

10. What is CNG? *

11. Are there hydrogen fueled cars on the road today? *



<http://youtube.com/watch?v=QFQGXeI47c0>

12. How does a fuel cell work? Explain *

13. What kind of motor is in a fuel cell car? *

14. What comes out of the tailpipe of a fuel cell car? *

This content is neither created nor endorsed by Google.

Google Forms

Measuring Electricity

Please answer the following questions from the website NEED Secondary Energy Infobook
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.need.org/wp-content/uploads/2019/10/Secondary-Energy-Infobook.pdf>

* Required

1. Email address *

2. Name *

3. Electricity in a wire flows similar to what? *

4. What is voltage? *

5. A 'AA' battery has how many volts? *

6. Wall plugs have how many volts? *

7. Amps measure what? *

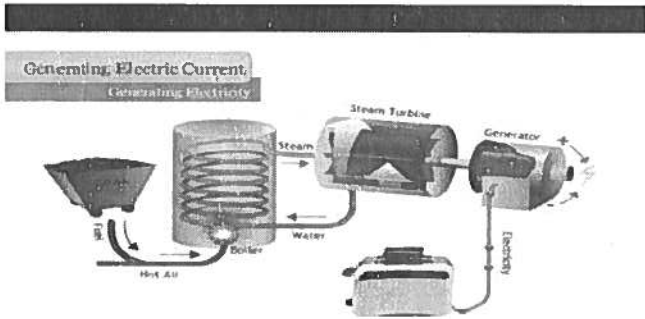
8. What do ohm's measure? *

9. What could cause this resistance? Explain *

10. What is Ohms Law? *

11. What do watts measure? *

12. What is the definition of power? *



<http://youtube.com/watch?v=AmWEs5CTQ3Q>

13. List in order how electricity is generated. (5pt) *

This content is neither created nor endorsed by Google.

Google Forms

Can coral Reefs Survive Climate Change?

Please answer the following questions from the 'Its ok to be smart" Youtube series. Link below.
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.youtube.com/watch?v=P7ydNafXxJl>

* Required

1. Email address *

2. Name *

3. How much of our body is made up of water? Earth? *

4. What compound is stressing our climate? *

5. Where are we seeing the change? *

6. What is coral? *

7. What is a polyp? *

8. What is zooanthele? *

9. What does symbiosis do? *

10. What is the cement called that builds the coral structure's? *

11. Where are most coral reefs found? *

12. What does CO₂ do to the heat in our atmosphere? *

13. Where has most of the heat on Earth gone? *

14. Where has 50% of the CO₂ gone? *

15. Ocean CO₂ becomes what? *

16. What do we call it when coral kicks out the zooanthelle? *

17. Can the coral live without the algae? *

18. How many species depend on coral reefs? *

19. What is currently the trend with coral? *

20. What do scientist hope to do? Explain *

This content is neither created nor endorsed by Google.

Google Forms

How Poop Shapes the World

Please answer the following questions from the 'Its ok to be smart" Youtube series. Link below. TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.youtube.com/watch?v=P7ydNafXxJI>

* Required

1. Email address *

2. Name *

3. What fish eat coral *

4. What do parrotfish make from their waste? *

5. Where do marine plankton specifically get their nutrients they need to live? *

6. What do plankton absorb a lot of from our atmosphere? *

7. What do the plankton give off into the atmosphere? *

8. What do dead plankton eventually become? *

9. What is marine snow? *

10. What 2 things does feces provide to repopulate a barren land mass , like after a volcanic eruption? *

11. What animal used to repopulate avocadoes? *

12. What helps reforest and rainforest? *

13. Who are the recyclers of the soil? *

This content is neither created nor endorsed by Google.

Google Forms

What if we could see nature in Infrared

Please answer the following questions from the 'Its ok to be smart" Youtube series. Link below.
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.youtube.com/watch?v=P7ydNafXxJI>

* Required

1. Email address *

2. Name *

3. Where does nearly all Earth's energy for life come from? *

4. What do chloroplasts do? *

5. Do plants use all energy wavelengths from the sun? *

6. What is the EM Spectrum? Explain *

7. Why are plants green? *

8. What don't plants use all wavelengths? Explain *

9. What does photosynthesis produce for plants? *

10. What is the basic unit of light? *

11. What color photons carry more energy? Which carry less? *

12. Why in the infrared do plants look bland/ gray? *

13. What color were the first photosynthesizers? Explain why *

14. Why did cyanobacteria adapt to reflect green and absorb red/blue? *

15. What 2 things determine what type of light hits a planet? *

This content is neither created nor endorsed by Google.

Google Forms

Is eye color real?

Please answer the following questions from the 'Its ok to be smart" Youtube series. Link below.
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progreesbook. Once you submit. you CANNOT change answers.

<https://www.youtube.com/watch?v=IGBGITdDs8A>

* Required

1. Email address *

2. Name *

3. Who said the eyes are the windows to the soul? *

4. Are everyone's eyes pretty similar? Explain *

5. How do we classify eye color? *

6. What is the iris? *

7. Are blue eyes blue? Explain *

8. What is the Tindall effect? *

9. Do genes determine eye color? Explain *

This content is neither created nor endorsed by Google.

Google Forms

Bioluminescence

Please answer the following questions from the 'Its ok to be smart" Youtube series. Link below.
TYPE YOUR OWN RESPONSE, NO CUT AND PASTE. All questions are 1 point unless otherwise indicated.

Grades will be posted on Progresbook. Once you submit. you CANNOT change answers.

<https://www.youtube.com/watch?v=P7ydNafXxJI>

* Required

1. Email address *

2. Name *

3. What is bio luminescence? *

4. Is fluorescence the same ? Explain *

5. What is a luciferin? *

6. Why do fireflies light up? Purpose? *

7. Where is most of Earth's bioluminescence? *

8. How many critters in the ocean Bioluminescence? *

9. Why do dinoflagellate luminescence? *

10. What are some other reasons to luminence? *

This content is neither created nor endorsed by Google.

Google Forms

