Applied Chemistry: 11/28 - 1/10

Unit Goal: Learn how naturally-occurring elemental resources are used for products and energy.

Unit Assessment: Tuesday, December 20th

Unit Project due: End of class on Tuesday, January 10th

Page	Date	Goal & Materials
46-47	M- 11/28 & T- 11/29	 Where do human-made objects come from? D01 Materials Warm-Up – complete with your group. Write what you find on page 46. D02 Intro to Materials (4:15) – Sabrina explains what materials are and where they come from. While you watch, answer the 4 questions in D02 Video Guide on top of page 47. D03 Elemental Resources (2p) – paraphrase the questions on page 47 underneath the video guide. D04 The Chemistry of Clothes (3:43) – Finish off page 47 with another video guide.
48	W- 11/30	 What are fossil fuels? D05 Darvaza Gas Crater — Discuss the questions first with your group, then with the class. D06 Energy Observations — Discuss with your group, then with the class. D07 Carbon Dioxide Tracking — On paper. Attach to page 48 D08 Fossil Fuels Exit Slip — finish the google form before you leave class.
49	R- 12/1	 What are fossil fuels? 1. D09 Nonrenewable Resources — work with your group to read the article & answer the questions. Put your ideas in your notebook on page 49. 2. D10 Fossil Fuels Jigsaw — On paper. Complete with your group and attach to page 49 when finished.
50	F- 12/2 & M- 12/5	 What is the greenhouse effect, and how is it related to fossil fuels? D11 Warm Up — Complete the google form when you arrive to class. D12 Greenhouse Effect Exploration — work with your group to answer the questions in your notebook on page 50. D13 Who Contributes Carbon Dioxide? — Attach the graph to page 50 when complete.
51	T- 12/6 & W- 12/7	Fossil fuels are relatively inexpensive, but are there any downsides to using them? 1. D14 Plastics warm-up — complete with your group. 2. D15 Plastics reading (2p) — paraphrase questions to page 51. 3. D16 An Ocean of Plastic — complete the activity with your group. 4. D17 Fossil Fuels Disadvantages (3p) — paraphrase questions to page 51.
iPad	R- 12/8	How can I knock over the most dominos? D18 Chain Reaction Lab — complete on iPad.
52-53	F- 12/9 10:35 release & M- 12/12	 What is nuclear energy? D19 Isotopes Reading (2p) — The return of chemistry! Paraphrase on the top of page 53. You need to know about isotopes because so you can understand D20 Nuclear Energy Notes —where nuclear energy comes from. Put these notes on page 53 under the isotopes reading. D21 Nuclear Energy Output — That's right, another graph. Attach to page 54 when finished. Don't forget to answer the question about the trend.
54-55	T- 12-13	What are the positives and negatives associated with fossil fuels and nuclear energy? 1. D22 Pros & Cons Reading (3p) paraphrase the questions to page 55. 2. D23 Energy Pros & Cons Output — complete on page 54.

Page	Date	Goal & Materials
iPad	W- 12/14	How can we make resources last longer? D24 Energy Modeling Lab — complete on your iPad.
57	R- 12/15 & F- 12/16	 What are renewable energy resources? D25 Types of Resources (3p) – Paraphrase to page 57. D26 Renewables Roundup – Use the video to answer the questions in D26 Video Guide. Continue on page 57. D27 Renewable Energy Jigsaw – Complete with your group. This will be very similar to the jigsaw you did with fossil fuels last week. Attach the table to page 57 in your notebook
56	M- 12/19	What should we do? D28 What's Your Reaction? — Assignments with puns are your favorite assignments, right? Anyway, we'll discuss this group project that you will work on after tomorrow's test. You will also have time to prepare for tomorrow's test.
n/a	T- 12/20	What did I learn in this unit? Test is today. Closed-note part is 13 questions. Open-note part is 17 questions.
	W-12/21 R- 12/22 M- 1/9 T- 1/10	What should we do? D28 What's Your Reaction? — you will have time in class these days to complete this assignment.
		Next unit: Cell Processes.