Name _____

converted	renewable	coincidence	efficient
incredible	consume	consequences	installed

Use the context clues in each sentence to help you decide which vocabulary word fits best in the blank.

The class settled in as Ms. Gibson wrote the assignment for the group project on the board: Being Green.

"Being Green? What does that mean?" asked Tiffany. "Do we need to paint ourselves?"

Ricky smiled. "No, Tiffany. It means being better to the environment. For example, we should try to consume, or use, renewable resources, or resources that can be restored."

"Ricky's right," said Ms. Gibson. "I want all of you to find a way to tell your friends and family the consequences of our actions if we don't take care of the environment. It's important to let everyone know that we should be more efficient and create as little waste as possible."

"My parents installed solar panels on our roof so that we can use power from the sun," said Lance. "The sunlight is converted into electricity by the panels."

"I think taking care of the environment should be something that we all think about and plan carefully. Saving the environment shouldn't be something that is just a coincidence, or happens by chance," said Britney.

"It sounds like you all already know a lot about this topic," said Ms. Gibson. "Now, let's convince as many people as we can to feel the same way as we do. Being green should be something we actually do, not just an incredible way of life that nobody can achieve."

"Let's all be green!" said Tiffany. The class applauded, eager to begin the project.

Name _____

Read the selection. Complete the main idea and details graphic organizer.

Main Idea
Detail
Detail
Detail

Name _____

Read the passage. Ask and answer questions to understand new information in the text.

Energy from the Sea

As I sat on the beach the other day, I saw the power of the waves
16 crash on the sand. The water splashed around me. Then the water
28 pulled along the shells that lay around me. This got me thinking.
40 We can use the wind and the sun to make power. We can use water,
55 too. Waterpower is also a renewable resource. It should be able to
67 help us solve our energy problems.

73 Waterpower has been in use for thousands of years. The earliest
84 use of hydropower can be traced to the waterwheel. It is a big wheel
98 with paddles on the rim. The force of the water turns the wheel. Then
112 the wheel runs machinery that is linked to it. Ancient Egyptians
123 used river currents to turn wheels way back in 2500 B.C. The ancient
136 Greeks and Romans used hydropower, too. It survived all the way
147 through medieval times.

150 But waterpower has evolved since then. Way back in 1628, the
161 Pilgrims used it to grind corn in mills. But by the 1800s, hot steam
175 replaced waterpower as the main power source. People used burning
185 coal to heat water. The boiling water then produced steam, which
196 ran engines and other machines.

201 By the end of the 1800s, waterpower came back into fashion.
212 Demand rose for electric energy. In 1882, the first hydroelectric plant
223 was built in Appleton, Wisconsin. It could make enough energy to light
235 a house and two paper mills. That's not much if you think about it. But
250 it was a start! As time went on, the demand for hydropower steadily
263 increased. One power plant now has the capacity of 7,600 megawatts.

Name _____

How Dams Work

You may think dams just hold water. But some dams are used to make waterpower. The amount of power they make depends on the height of the water. When the water is high, more pressure is put on the turbines down below. The more the turbines turn, the more power there is.

But there is a problem with hydropower. It is only useful in certain parts of the country. If there is not a large moving water source, then hydropower will not work. This is why some people believe waterpower is all nonsense. But there are states that do make lots of hydropower. Areas in California and the Pacific Northwest produce the most power.

I went to the library to find out how much of our energy comes from waterpower. About 7.8 percent of the power made in the United States is from hydropower. To my disbelief, a lot comes from fossil fuels and nuclear power, too. I had hoped to see higher numbers for renewable resources.

Perhaps one day we can learn to rely just on renewable resources. Look at countries like Brazil and Iceland. Iceland relies on geothermal power from hot springs. Brazil has one of the biggest dams in the world. These countries can give us a preview of how the United States can become a greener nation.

Name _____

A. Reread the passage and answer the questions.

Possible responses provided.

1. What are three key details in paragraph 2?

Waterpower has been around for thousands of years. The ancient Greeks, Egyptians, and Romans used hydropower. Hydropower survived through medieval times.

2. How are these details connected?

They all give information about hydropower.

3. What is the main idea of the whole passage?

Hydropower has been around for a long time and can help us solve our energy problems.

B. Work with a partner. Read the passage aloud. Pay attention to expression. Stop after one minute. Fill out the chart.

	Words Read	–	Number of Errors	=	Words Correct Score
First Read		–		=	
Second Read		–		=	

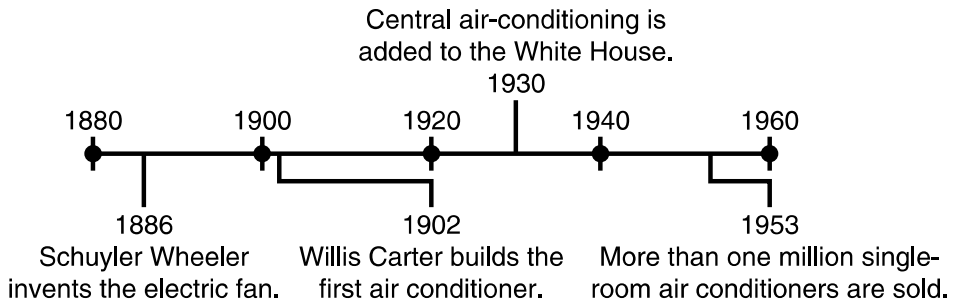
Name _____

Cooling our Homes

After electric fans came air conditioning. This kind of cooling had a big impact on how houses were built in America. Rooms became smaller so they would be easier to cool. Ceilings were lowered. Glass doors and picture windows replaced open porches.

Air conditioning also allowed cities to grow in new places. Harsh local climates no longer kept people from building comfortable homes. Desert cities like Phoenix, Los Angeles, and Las Vegas grew quickly after air conditioning was invented.

Dates in the History of Air Conditioning



Answer the questions about the text.

1. **How can you tell that this text is narrative nonfiction?**

   It presents factual information to tell a story.

2. **What text features are included in this text?**

   time line

3. **How does the time line help you understand the text?**

   Possible answer: It gives you information about when the changes described in the text take place.

Name _____

Latin Prefix	Meaning	Greek Prefix	Meaning
non-	not	*hydro-*	water
pre-	before	*pre-*	before
		mega-	large
		geo-	earth

Read each sentence. Write the meaning of each word in bold on the line provided. Use the information about prefixes in the box above to help you.

1. The chapter **preview** in our book told us we would be studying marine life next week.

   something that gives an idea of what is to come

2. **Megawatts** are a greater unit of power than a watt.

   large units of power

3. Some ancient civilizations used rivers to create **hydropower**.

   power generated from water

4. My friends looked at me in **disbelief** when I told them I met a movie star.

   not believing

5. The **geothermal** temperature is hotter near Earth's core.

   internal temperature of Earth

6. Some people used to think it was **nonsense** to say Earth was round!

   making little or no sense

Name _____

A. Read each sentence. Circle the words that have prefixes. Write the prefixes on the line.

1. My teacher was disappointed when she learned that I had misplaced my work.
   dis _____ mis _____

2. One misstep and the mountain goat could fall from the rocky cliff.
   mis _____

3. I was uncertain if the disc was mislabeled because it had an odd title.
   un _____ mis _____

4. I have never uncovered such silly nonsense in my entire life!
   un _____ non _____

5. Never discourage your friends from trying new and interesting things.
   dis _____

B. Read the words in the box below. Then read each definition of a word from mythology. Write a word from the box next to each definition to show that the two are related. Use each word from the box only once.

chronology	fortune	panic	titanic	hydrant	typhoon

1. Typhon – a dangerous monster typhoon
2. Pan – a frightening creature panic
3. Cronos – god of time chronology
4. Titans – gigantic gods titanic
5. Hydra – a water snake hydrant
6. Fortuna – the goddess of luck fortune

Name _____

Evidence is details and examples from a text that support a writer's ideas. The student who wrote the paragraph below cited evidence that shows how the author uses key details to support the main idea.

Topic sentence → In "Energy from the Sea," the author provides key details to support the main idea that hydropower is a renewable energy source that can be used to help solve our energy problems.

Evidence → The author gives key details presenting evidence that waterpower has been used for centuries. The author also points out that hydropower is a renewable source of energy.

Concluding statement → The author's use of key details supports the main idea that hydropower is an important source of renewable energy.

Write a paragraph about the text you have chosen. Show how the author uses key details to support the main idea. Cite evidence from the text. Remember to use precise language and to use negatives correctly.

Write a topic sentence: _____

_____

Cite evidence from the text: **Answers will vary but should include a topic sentence, evidence from the text, and a concluding statement. Details and examples from the text should support the writer's analysis of how the author uses key details to support the main idea. Answers should include precise language and use negatives correctly.**

End with a concluding statement: _____

_____

Name _____

A. Read the draft model. Use the questions that follow the draft to help you think about what transition words you can add.

Draft Model

Gas has many important uses. People use gas to power their cars and to run buses and trains. I think people need to save energy. People should stop using so much gas.

1. What transition word would show that the second sentence is an example of the idea in the first sentence?

2. What transition word would show that the ideas in the second and third sentences are related?

3. What transition word would show a cause-and-effect relationship between the ideas in the last two sentences?

B. Now revise the draft by adding transition words to link ideas.

Answers will vary, but should include transition words that link ideas about saving energy.