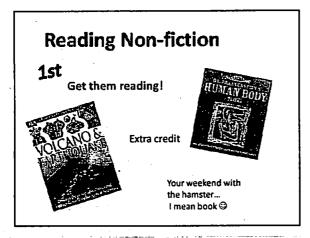
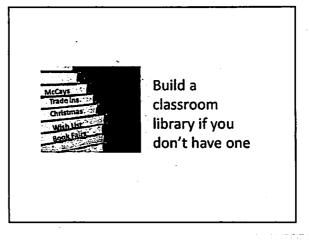
Annotating / Coding Non-Fiction Text

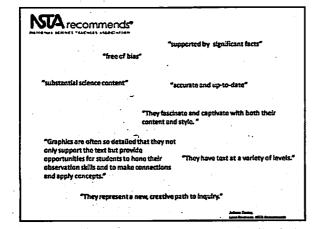
- R Reminds me of.....
- BK Background knowledge
- L New Learning
- ? Question
- A Answer to a question
- W I wonder
- F Fact
- ! Important information, Wow!

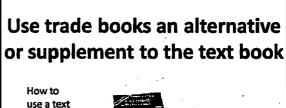
7" grade science at SMMHS houston laura@hade.org

Why Reading and MSNS Writing in science? objective Common Core/National standards Higher levels of Constructed Bloom's Response TCAP Marzano's EXPLORE/ACT PARCC





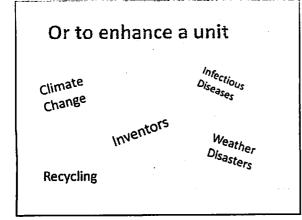


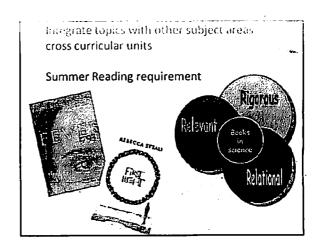


book

How to read a text book







Incorporate
Strategies

1. Annotating

2. Written Conversation

Dear San,

In written
conversation,
write to your
elbow partner, for
from 1 minute. Tell
them in one or 2
sentences how
you feel about
climate change.

Trado papers and read what your partner has written. Talk
with them about it for 1 min. Keep this paper.

Now read and annotate paragraphs 1-4 of "The Big Thaw".

Now write for 1 minute to your partner, some of the most important facts you learned in these paragraphs and if you had any questions.

Trade papers and read what your partner has written. Talk with them about it for 1 min. Keep this paper...

Now read and annotate paragraphs 5-10 of "The Big Thaw".

Now write for 2 minutes to your partner. Tell them something you read that was background knowledge and something new you learned.

Trade papers and read what your partner has written. Talk with them about it for 1 min. Keep this paper.

Finally, write for 1 minute on how you feel about climate change and the effects it is having on our lives.

Trade papers and read what your partner has written. Talk with them about it for 1 min. Keep this paper. It should be yours.

3rd Get them writing..

..WELL!

Give them a purpose



Types of Writing:

cause/effect essay
 comparision/contrast essay
 definition essay
 description essay
 narration essay
 persuasive essay

process analysis essay

http://ks.dl.ks.be.edu/writingresource/typeswriting.html

Give them a topic

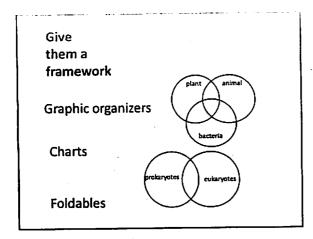
Compare/contrast-sexual and asexual reproduction

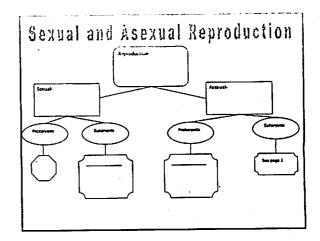
Cause/effect -photosynthesis/cellular respiration burning fossil fuels/climate change

Describe-parts of a cell/parts of a school

Process analysis-mitosis Lab procedures I







Compare and Centrust Essay-Serual and Asexust Reproduction
In Probaryctic and Eukaryctic Organisms
In this easily you will get experience writing a compare and contrast easily by writing
thou the cimilarities and differences between count and assaust reproduction AS WELLAS
the cimilarities and differences between probaryctic and extractlyce organisms.
You may toknow the outline between the pour paragraphs AND you must include specific examples
of the symbothies and differences as mentioned above. Describe your extracts and experience
they demonstrate your point. <u>Use two commentionatory words have between the your increduction</u>
attention getting and interesting, croouraging the reader to continue reading.
Summarite and add your own opinions to the conclusion.
Key words you can use:

Continus:

Continus
on the other hand
both typed or handwritten clearly 3-5 sentences/paragraph m

utline	
I-Introduction-introduce, define reproduction and state types	
2-Sexual Reproduction-compare and contrast prokaryotic vs eukaryotic Organisms	
3-Advantages and disadvantages of sexual repro.	
t-Asoxual Reproduction-compare and contrast prokaryctic vs eukaryotic organisms	
5-Advantages and disadvantages of asexual repro.	
5-conclusion	
· · · · · · · · · · · · · · · · · · ·	

Cause and Effect Workshoot-Photosynthesis. Cellular Respiration and Climate Change
There are many ways we can look at photosynthesis and respiration AND the greenhouse
effect and climate change as a cause and effect relationship. We are going to write a cause and effect essay explaining these relationships.

Cauda	Effect	Proof/Examples	Source
			- · · · · · · · · · · · · · · · · · · ·
	-:-		

No personal pranouns Biolography if needed

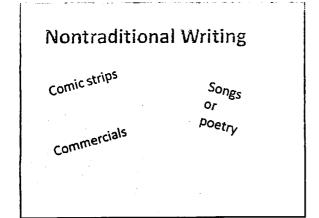
use and Effect Worksheet-Photosynthesis, Cellular Respiration and Climate Change There are many ways we can look at photosynthesis and respiration AND the greenhouse effect and climato change as a causo and effect relationship. We are going to write a causo and effect essay explaining these relationships.

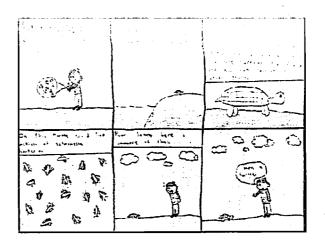
Complete the cause and effect chart.

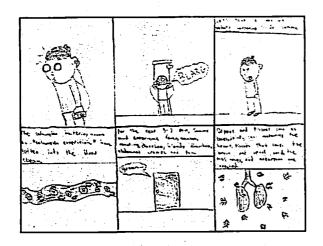
exhouse effect so designed to specific examples and facts and sources you got the facts from cots of climate change-use specific examples and facts obtained on your own from web sites suggested or other sources and list the sources as well in the table. It are some transition words you could use in your writing to go from a cause to an effect? List them below the table. List them below the table, at are some transition words you could use in your writing to explain your statements with camples and proof? List them below the table. Tuplete the outline below and have tracher approve it before writing your essay.

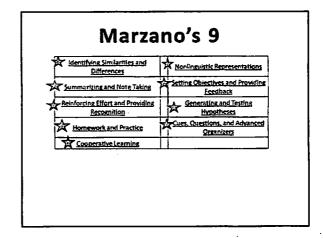
Paragraph 1-introduction (interesting, or Paragraph 2-Photosynthesis and Respin Paragraph 3-Causes of Climate change Paragraph 4-Effects of Climate Change

Paragraph 5-Conclusion (restate in memorable woy) Sources used: List below, Don't forget Sources ofted on a separate page!









Other tips....
Cell words
Rubrics
Modeling
Showing student work

http://www.nsta.org/publications/osth/

http://www.supertoacherworksheets.com/mscomprehension.html

http://www.titguide.ccad.k12.co.us/instructional_tooh/Strategies/Strategies,
html



By Daniel Glick

If we don't have it, we don't need it," pronounces Daniel Fagre as we throw on our backpacks. We're armed with crampons, ice axes, rope, GPS receivers, and bear spray to ward off grizzlies, and we're trudging toward Sperry Glacier in Glacier National Park, Montana. I fall in step with Fagre and two other research scientists from the U.S. Geological Survey Global Change Research Program. They're doing what they've been doing for more than a decade: measuring how the park's glaciers are melting.

So far, the results have been positively chilling. When President Taft created Glacier National Park in 1910, it was home to an estimated 150 glaciers. Since then the number has decreased to fewer than 30, and most of those remaining have shrunk in area by two-thirds. Fagre predicts that within 30 years most if not all of the park's namesake glaciers will disappear.

"Things that normally happen in geologic time are happening during the span of a human lifetime," says Fagre. "It's like watching the Statue of Liberty melt." Scientists who assess the planet's health see indisputable evidence that Earth has been getting warmer, in some cases rapidly. Most believe that human activity, in particular the burning of fossil fuels and the resulting buildup of greenhouse gases in the atmosphere, have influenced this warming trend. In the past decade scientists have documented record-high average annual surface

temperatures and have been observing other signs of change all over the planet: in the distribution of ice, and in the salinity (salt concentrations), levels, and temperatures of the oceans.

When temperatures rise and ice melts, more water flows to the seas from glaciers and ice caps, and ocean water warms and expands in volume. This combination of effects has played the major role in raising average global sea level between four and eight inches (10 and 20 centimeters) in the past hundred years, according to the Intergovernmental Panel on Climate Change (IPCC).

Scientists point out that sea levels have risen and fallen substantially over Earth's 4.6-billion-year history. But the recent rate of global sea level rise has departed from the average rate of the past two to three thousand years and is rising more rapidly—about one-tenth of an inch (about one-fourth of a centimeter) a year. A continuation or acceleration of that trend has the potential to cause striking changes in the world's coastlines.

In the late 1950s a researcher named Charles Keeling began measuring CO₂ in the atmosphere above Hawaii's 13,679-foot (4,169 meter) Mauna Loa. The first thing that caught Keeling's eye was how CO₂ level rose and fell seasonally. That made sense since, during spring and summer, plants take in CO₂ during photosynthesis and produce oxygen in the atmosphere. In the fall and winter, when plants decay, they release greater quantities of CO₂ through respiration and decay. Keeling's cycling seasonal changes in CO₂ became famous as a visual representation of the Earth "breathing."

Something else about the way the Earth was breathing attracted Keeling's attention. He watched as the CO₂ level not only fluctuated seasonally, but also rose year after year. The carbon dioxide level has climbed from about 315 parts per million (ppm) from Keeling's first readings in 1958 to more than 375 ppm today. A primary source for this rise is indisputable: humans' excessive burning of carbon-laden fossil fuels for their factories, homes, and cars.

Exactly how large that effect might be on the planet's health and respiratory system will continue to be a subject of great scientific and political debate—especially if the lines on the graph continue their upward trend.

There are no words, though, to describe how much, and how fast, the ice is changing. Researchers long ago predicted that the most visible impacts from a globally warmer world would occur first at high latitudes: rising air and sea temperatures, earlier snowmelt, later ice freeze-up, reductions in sea ice, thawing permafrost, more erosion, and increases in storm intensity. Now all those impacts have been documented in Alaska.

Before leaving the Arctic, I drive to Point Barrow alone. There, at the tip of Alaska, roughly made hunting shacks dot the land. Next to one shack someone has planted three eight-foot (two-meter) sticks of white driftwood in the sand, then crisscrossed their tops with whale baleen, a horny substance that whales of the same name use to filter life-sustaining plankton out of seawater. The baleen, curiously, looks like palm fronds.

So there, on the North Slope of Alaska, stand three makeshift palm trees. Perhaps they are no more than an elaborate Eskimo joke, but these Arctic palms seem a clear metaphor for the Earth's future.