

# Interdisciplinary Units with a Twist of Technology

TIE Conference  
April 6, 2008

## Heroes, Helpers and Entrepreneurs

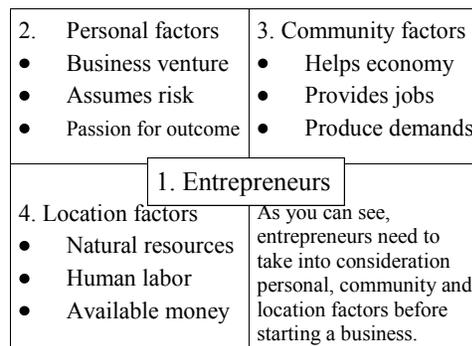
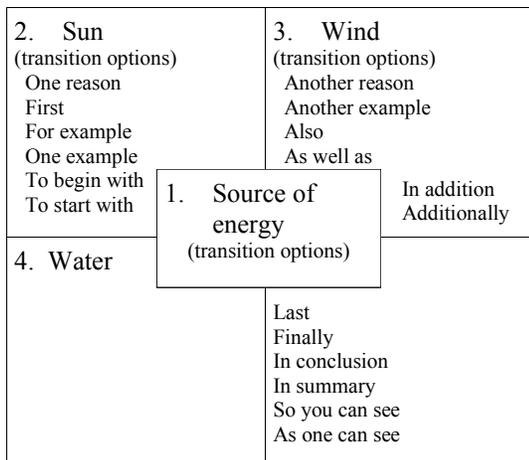
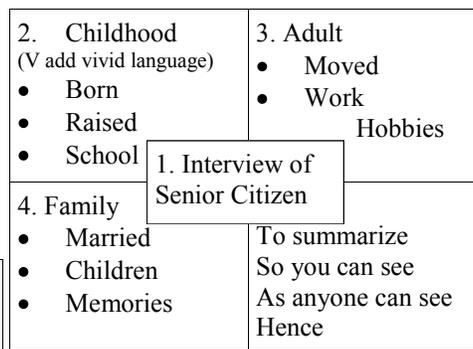
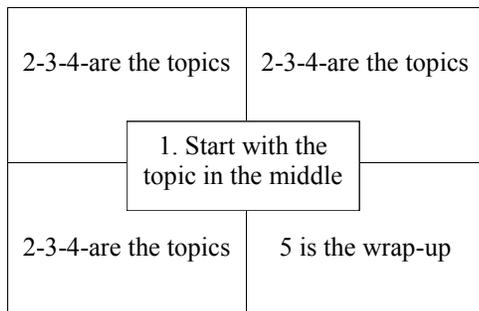
Sioux Falls  
Washington High School

**4 Square Writing Method**  
Developed by Judith & Even Gould

4 square + 3 + V (vivid language) = composition



4 Square Writing Method can help students with brainstorming and organization.



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## POWER Strategy

POWER inquiry format strategy is based on an inquiry model of question, investigate, create, evaluate, and discuss as follows:

- P** Present words and *questions* using the *Know* and *Want-to-Know* sections of the K-W-L chart
- O** Obtain information through *investigating* (reading and research)
- W** Write and draw about what you learned
- E** *Evaluate* what you learned (in small-group discussions)
- R** Review what you learned through whole-class *discussions* and fill in the *Learned* section of the K-W-L chart

## Let's Learn a New Science Word

### Reader's Theater

Solo Voice	Group 1	Group 2	Group 3
	Let's learn a new word		
	A new word, a new word, let's learn a new word.	A new word, a new word, let's learn a new word.	A new word, a new word, let's learn a new word.
		biomass	
	Biomass?	Biomass?	Biomass?
What is biomass?			
		Anything that is alive	
	Trees		
		Crops	
			Garbage
	Animal waste		
Animal waste and garbage, yuck, how does that fit with trees and crops?			
			Biomass gets its energy from the sun.
	Well.... People and animals get their energy from plants.		
		Plants are the biomass.	
			People eat hamburgers...
	Hamburgers were once cows....		
		Cows ate grass.	
	The cows received energy from the plants		
			People receive energy from meat and plants.
What about the animal waste and garbage stuff?			
			Wood can provide energy for people to stay warm
		And so can cow and pig waste.	
	Some towns burn garbage changing		
	Waste-to- energy! <b>BIOMASS!</b>	Waste-to- energy! <b>BIOMASS!</b>	Waste-to- energy! <b>BIOMASS!</b>

# Vocabulary

biomass

## Vocabulary Game

A student:

- catches the cube and silently reads the word closes to their right thumb.
- helps peers guess what the word is without saying the word.

Word options are:

Option 1 synonym

Option 2 antonym

Option 3 acting out

Option 4 example

hydropower.

geothermal

petroleum

Other cube ideas:

1. What did I learn?
2. What else do I want to know about ....?
3. What was this mainly about?
4. What questions do I still have
5. Share one new idea with another person.
6. What new words did I learn?

propane

1. Who
2. What
3. When
4. Where
5. How
6. Why

solar

## Interview questions for Senior Citizens

1. Where were you born?	
2. What did your dad do?	
3. What did your mom do?	
4. Where did you go to school?	
5. How did you get to school?	
6. What did you like most about school?	
7. What was your favorite thing to do when you were a child?	
8. What kinds of chores did you have to do?	
9. Did you have any pets?	
10. What is your favorite animal?	
11. What is your favorite food?	
12. How old were you when you moved out to live on your own?	
13. What kinds of jobs have you had?	
14. How many different places have you lived?	
15. Do you have any children?	
16. Why do you like living in South Dakota?	

*Primary Sources:  
Diary entries and  
document papers  
are incredible  
sources of  
information, but  
talking to an  
individual is one of  
the best.*

## Interview questions for Business Person

1. Explain what you do.	
2. How did you get started in your business?	
3. Did you have extra schooling to do this job?	
4. When did you realize you would like to do this business?	
5. What part of the job is easy?	
6. What part of the job is hard?	
7. How many hours each day or each week do you spend at your job? (Figure out how many hours each day or each week student is in school.)	
8. Do you have people help you with your job?	
9. What do they do?	
10. If you could start over in a new job, what would you want to do?	
11. What are your hobbies?	
12. Do you belong to other organizations?	