



Flipped Classroom: Disaster or Coup de Gras

Hull College of Business



By Buffie Schmidt, MBA, Ed.S.

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Getting Started

OVERVIEW

- Introduction of Presenter
 - Getting Started Exercise
- Background for Project
 - Teaching Philosophy
 - Flipping Defined
- Flipping Technique
 - Process Examples Defined
 - Discipline Integration
 - My Design
- Findings
 - Student Outcomes
 - Take Away for Future Research
- Flip Your Class!
 - Exit Exercise Your Design!



Introduction

PRESENTER

Buffie Schmidt, MBA, Ed.S.

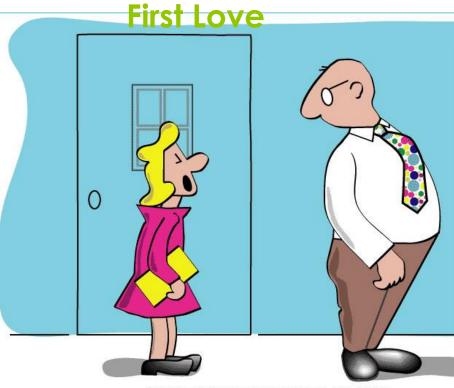
- Education:
 - B.S. in Computer Science and Mathematics, with Minor in Chemistry from Brenau University in Gainesville, GA
 - MBA & Ed.S. in Ed. Leadership from Augusta State University
- Career:
 - Georgia Regents University
 - Troy University
 - Walt Disney World Co.
 - Electrolux
 - CompUSA

spots.gru.edu/bschmidt



Introduction

What's Next?



"As we start a new school year, Mr. Smith, I just want you to know that I'm an Abstract-Sequential learner and trust that you'll conduct yourself accordingly!"

Newest Love







http://serc.carleton.edu

Teaching Philosophy

- Employers hire for skills not degrees:
 - Problem solving, critical thinking, decision making, communication, collaboration, time management
- Education = Power
- Perception = Reality
- Win Battles and Victory will follow
- In business (life) the audience is key
 - Know your students
- I Strive to engage students, Foster Deep thought and Critical Inquiry
- Require students take some responsibility for learning
 - Accept nothing late
- Utilize varying forms of teaching/evaluation methods



Teaching Philosophy

- Differentiated Teaching
 - Provides multiple ways for processing concepts, demonstrating knowledge, and evaluating assessments
 - Goal: Maximize growth of individual students
 - Goal: Meet student where they are
- Authentic assessment
 - Engage in real life scenario
 - Reinforce knowledge and skills learned in classroom
 - Simple as leprechaun comic task or as involved as graph creation from newspaper
 - Performance based learning and assessment



Introduction

Getting Started Exercise

Boring Basics

- Select one concept/chapter with which you know your students struggle for which you are willing to try something new
- Organize into groups of 2 or 3
- Share your topics with each other
- Complete the Boring Basics handout
 - Share at least one idea with someone
 - Receive at least one idea from someone



Email:

Flipping Defined

CASE CLASS

An Old Idea with a New Name and a <u>Twist</u>

Backwards Classroom

Inverted Instruction

Inverted Classico

Blended learning

technique

Reverse Teaching

Peer Instruction

Reverse Instruction



Flipping Defined

- So What's the New Twist
 - Focus on Higher Level Thought (deeper learning)
 - Maximize Time with Instructor
 - Increased one-on-one opportunities (Bloom 1984)
- No need to flip the entire course right away
 - Flipping one assignment will change the world for someone



Flipping Defined

The Basics of Flipping

- Before Class Student reviews/learns concepts
 - Instructor spends less time lecturing and more time with students (Often achieved via technology-video lectures)
- Classroom time Apply concepts to other contexts
 - Differentiation made easier
 - Higher level thought (<u>Blooms Taxonomy</u>)
 - Collaborative, Student Centered, Experimental Learning
- After Class Student engages in reinforcement activity
 - Retention is achieved/improved
- *Findings Close the loop
 - Assess the flipped assignment



*Findings is added by me.

Flipping research only practices the first three.

Flipping Defined

Traditional

- Class Lecture
 - Homework/Quiz
- Class Lecture
 - Homework/Quiz
- Exam

Teach by Telling

Teacher = Talker Student = Bored Class = Knowledge/ Understanding

<u>Flipped</u>

- HW: Video Lecture
- Class discussion
 - HW: Reading activity
- Class small groups
- Exam

Teach by Questioning

Teacher = Tutor Student = Engaged Class = Application/Analysis

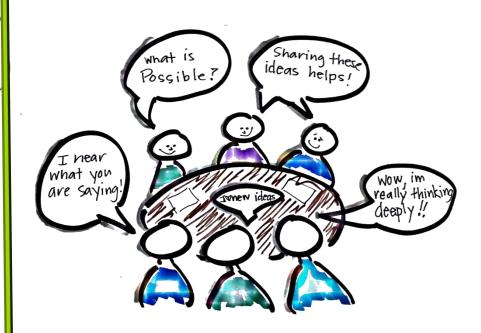


Flipping Defined

• How are you using your class time?

Everyone knows learning must be serious and difficult and you must remain seated at all times. No fun allowed.







*http://blog.cbl-global.com

*http://headrush.typepad.com

Flipping Defined



• How are you using your class time?

Higher level

APPLICATION

Deeper Thinking

Analysis
Improved
Improved
retention

Critical Thinking

Exciting

Solution based discussion



BEFORE

Process Examples Defined

Step 1: Require assignment on concepts being covered in class to be completed **prior to class**

- Voiceover on powerpoint
- Video lecture (Khan Academy, itunes University, personal lecture capture, educational youtube)
- News clip (selected or unsolicited)
- Homework based on concept/chapter
- Group assignment with specific deliverables
- Others?



*Also assists with time management skills

**Forces student to own learning

BEFORE

Process Examples Defined

Step 2: Integrity of Flipping Assignment:

Ensure students ethically complete the pre-activity

- 1. Short <u>quiz</u> at the beginning of class
 - Built into grade or for extra credit
- 2. Begin class with <u>discussion</u> assuming <u>Blooms</u> Level 1 & 2 knowledge levels
 - Dismiss class if the majority are unprepared and do not re-cover in the next class period
- 3. Begin class with short group exercise requiring application
 - Take up the papers with names



CLASS

Process Examples Defined

Step 3: Thought Provoking, Goal Assignments used to stimulate deeper thought, improve critical thinking, and encourage creative, application, and analytical Current Event Class Discussion

• Encourage and Reward participation

• Encourage and Reward participation

• Courseions thought resulting in excitement and concept retention

- 1. Current Event Class Discussion
- 2. Small Group Discussions
- 3. Clicker Questions
- Working End of Chapter Problems (math)
- 5. Solving Project Based Learning Assignments



*Goal assignment: What have you always wished you had time to do in class?

CLASS

Process Examples Defined

Step 3: Thought Provoking, Goal Assignments used to stimulate deeper thought, improve critical thinking, and encourage creative, application, and analytical thought resulting in excitement and concept retention

- 6. Real-Life Document Analysis (hand on, labs)
- 7. Problem Solve/Clarify
- 8. Individual Reflection
- Course Projects:
 - Debates
 - Presentations



Case Studies



AFTER

Process Examples Defined

Step 4: Follow up Assignment in an attempt to solidify the imprint of the newly gained knowledge on the student's mind.

- Additional Experience –
 After class assignment of choice
 - Write in journal
 - Interview professional
 - Mind map the concepts
 - Review of Key concepts

Students Engage and Retain more when they have choices



*Consider requiring a minimum number to be completed over the semester in a portfolio

FINDINGS

Process Examples Defined

Step 5: Results Assessment

- Compare was your "flip" effective
 - Exam Scores
 - Embedded Questions assessing specific Learning Outcomes
 - 3. Overall Course Grades
 - 4. Course Evaluations
 - 5. ETS scores



Discipline Integration

- Political Science/Economics
 - Provided later
- Communication
 - Require (memo, resume, cover letter) be brought to class prior to class discussion on written communication chapter
 - Require 2 minute informational/persuasive speeches on topic of choice on day covering oral communication. (do not have to choose everyone, allow class to critique speakers, offer extra credit for volunteers)



Discipline Integration

- Mathematics/Finance
 - Require analysis of firm of choice using specific equation or concept being covered (remember there is not a need to apply all of your knowledge to concept specific assignments)
- English
 - Brainstorm with The local newspaper is an excellent source of inaccuracies Colleagues!
 - Utilize your library!
- Physical Education
 - Video of Rules, Sportsmanship, Team Selection
- Sciences, Art, Music, Logistics, or any Discipline
 - Follow outline to follow.....



OUTLINE

Discipline Integration

How to Flip Your Course – Flipped by Schmidt

- o Design the deliverable considering
 - 1. Where is your concept used in real life?
 - 2. What assignment will benefit students beyond specific concept understanding?
 - 3. Evaluation of group or individual assessment (rubric?)
- Don't focus on the concept you need them to learn!
- Do focus on how the concept will be utilized/applied in their life.
 - Know your students. Personalities, goals, majors, year in school, <u>learning styles</u>
- o Whenever possible:
 - Allow students to choose
 - Partner with local businesses



My Design

Before - Boring Basic, traditional delivery/assignments

- Attend lecture of chapter
 - 2. Complete homework/quiz
- Repeat #1 and #2 for three or four chapters
- 3. Complete Exam
- Repeat #1-#3 for three or four exams
- 4. Complete Final Exam



My Design

After - Flipped Classroom

- Read Chapter & Complete Homework
- 2. Attend Class & participate in daily activity
- Repeat #1 and #2 for three or four chapters
- 3. Complete Exam
- Repeat #1-#3 for three or four exams
- 4. Complete Project Based Learning course project



*We must change our approach to evaluation if we really desire to change our approach to teaching – <u>students study</u> according to assessment practices!

My Design - Data

Boring Basic verse Flipped Classroom

- o 37-45 students
- Mostly Sophomores
- Some Juniors
- FewFreshmen/Seniors
- 50% Business Majors
- 30% Political Science

- No significant differences amongst the cohorts
- Evening classes were smaller with more upperclassmen and non-traditional students



My Design - Data

Boring Basic verse Flipped Classroom

Assignment	Spring 11	Spring 12	Spring 11	Spring 12	Fall 11	Fall 12
Homework	6	ama Spring (L			
Mind Maps	3	ame Spring : 2011 & 2				
Graphs		2011 0 2			Fall Seme	ster.
Quizzes	Spring Se	mester:	Spring Semester:			
Exams	Day classes		Evening classes		Improved Flip	
Debate	-				Assignme	ent
Journal						
Participation						
Total						

Sources of Flips

Exams and Debates > 50% of course grade

Graphs are used to prepare student for exams and debate (formative assessment)



My Design - Data

Greater Percentage assigned to Flipped Assignment & Performance Assessment

Boring Basic verse Flipped Classroom

	DAY	Class	EVENING Class		
Assignment	Spring 11	Spring 12	Spring 11	Spring 12	
Homework	0	0	0	0	
Mind Maps	0	 10	0	10	
Graphs	21	15	21	15	
Quizzes	13	0	13	0	
Exams	44	50	44	50	
Debate	0	1 5	0	1 5	
Journal	12	0	12-	0	
Participation	10	10	10	10	
Total	100	100	100	100	

^{*}All numbers are percent values

Sources of Flips

Exams and Debates > 50% of course grade

Graphs are used to prepare student for exams and debate (formative assessment)



Student Outcomes

Boring Basic verse Flipped Classroom

	Ma	icro	Macro		
	After	noon	Evening		
06890	SPRING 11	SPRING 12	SPRING 11	SPRING 12	
AAA	Traditional	Flipped	Traditional	Flipped	
#Students	45	45	19	43	
Α	29%	31%	37%	48%	
В	36%	49%	16%	25%	
С	13%	11%	16%	16%	
D	4%	0%	5%	0%	
F	9%	4%	16%	7%	
W	9%	4%	11%	5%	
	Completion Percentage		Completion Percentage		
A, B, or C	78%	91%	68%	89%	
DFW	22%	/9%/	32%	/11%	
% change		13%		20%	



Take Away

o This really works!

- More students successfully completed course
- Integrity of Flipping Assignment is important!
 - Must not be a "cake" assignment
- Traditional and Non-Traditional students will benefit differently

I was able to:

- Add more current events and 'dream topics' to classroom experience
- Achieve higher level of thought in class discussions and witness 'light bulb' moments as critical thinking took a foot hold
- Course debates were so engaging a graduate faculty member duplicated and continues to use in her MBA course.



Take Away

Time Commitment

- Preparation of Flipped Assignments
 - Integrity, Concept based, Assessable
- Preparing students for 'flipped' experience
 - Explaining concept
 - Specific before/during/after class expectations
- Managing student expectations and the 'flipped experience'
 - Encouragement for slow to grasp students
 - Maintaining challenge for quick learners
 - Incorporating higher-level thought scenarios into curriculum

Well worth the time based on

- Final assessment
- Student comments (need to study these!)



Future Research Opportunity

- Further discover the differences among traditional verse non-traditional student benefit
- Explore possible differences in afternoon verse evening students
- Determine differences in course evaluation comments
- Determine retention level success by following up 6/12 months later
- Others?



Flip Your Class!

Nursing Discipline Example

- Flipping: Students complete initial learning on their own time and class time is used to work through problems, apply concepts to scenarios, collaborate with instructor or peers, and ultimately achieve deeper level understanding from interactive and engaging activities resulting in higher level thought
- Watch Video by Andrew Wolf from the School of Nursing at the University of Rochester Medical Center
 - http://www.youtube.com/watch?v=UL0ADbzCR2U&list=PL J5kKhwVxA5Ju4Iv0ZBqVGiUx1-HSQqMJ



Flip Your Class!

Exit Exercise

Flipped by Schmidt

- Complete the Flipped by Schmidt handout
 - Share your outcomes/ideas with each other
- * Problem Concept/Chapter: Select one concept/chapter with which you know your students struggle for which you are willing to try something new (Gains from Trade)
- !! Specific Concept Struggle: Be specific concerning the struggle your students experience on this concept (math)
- 1 Big Picture: Where is this concept utilized in real life? What career path utilizes this concept?
- 2 Real World: What assignment relates to or requires student to enter the real world. Think cross-discipline/multidimensional
- 3 Evaluation: Be sure to consider the level of difficulty with rubrics, formative/summative or objective/subjective assessment



FLIPPED BY SCHMIDT

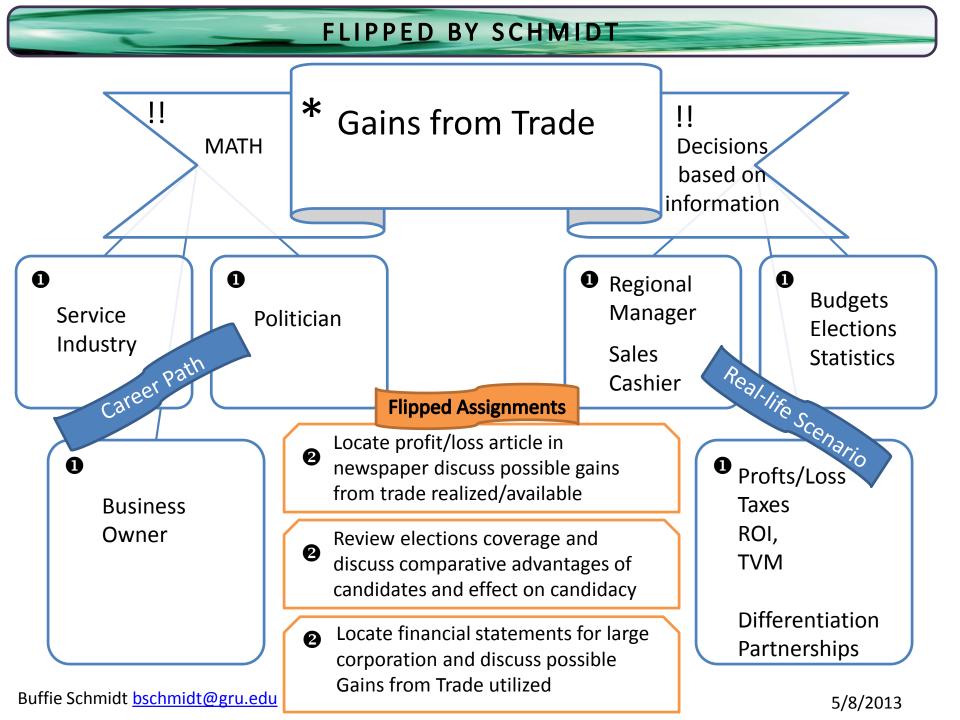
Handout Instructions

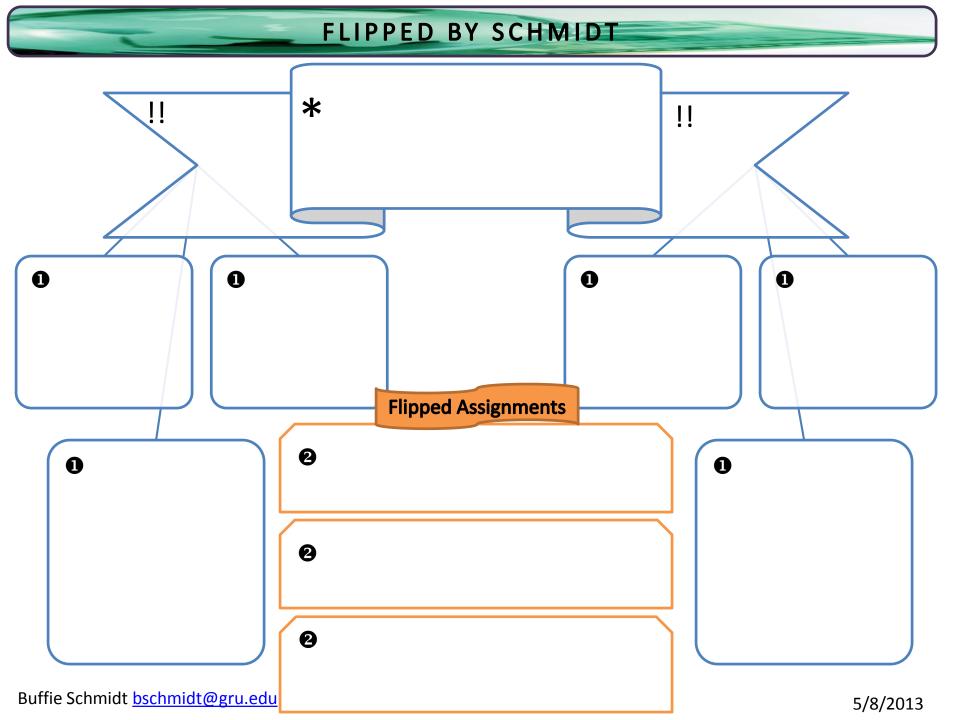
This worksheet is for **YOUR** benefit. It will help you devise effective Flipping ideas. It is not for students.

Orange boxes are assignment ideas you will choose from to utilize in class or as flipped assignments.

Blue Boxes indicate a recommended process to derive excellent ideas for flipped assignments that address root concepts/issues by utilizing real-life and proven retention increasing strategies

- * Problem Concept/Chapter: Select one concept/chapter with which you know your students struggle for which you are willing to try something new (Gains from Trade)
- !! Specific Concept Struggle: Be specific concerning the struggle your students experience on this concept (math)
- 1 Big Picture: Where is this concept utilized in real life? What career path utilizes this concept?
- 2 Real World Application: What assignment relates to or requires student to enter the real world. Think cross-discipline/multidimensional. (These are possible assignments to use for flipping)
- **3 Implementation/Evaluation:** It is now time to create your assignments and Flip your course/lecture. Be sure to consider the level of difficulty with rubrics, formative/summative or objective/subjective assessment.
- Share your outcomes/ideas with others





Flip Your Class!

Exit Exercise

Your Findings?

- Compare Handouts
 - Which one do you think will excite and engage your students the most?
 - Which one do you think will result in higher level thought, greater retention, improved critical thinking, and decision making skills?
 - Which one are you more excited about?
 - If you are not more excited about the Flipping process, Why?
 - How can you make it more concise?
 - How can you adapt the concept to your teaching style?



Conclusion

Why Flip?

• What are we all about?



http://www.fossati.us/teaching.php



*Make it FUN for YOU!

Adapt to **YOUR teaching style!

Conclusion

THANK YOU



Buffie Schmidt, MBA, Ed.S.

Lecturer, Hull College of Business Georgia Regents University

(706) 737-1560 Work (706) 680-6123 Mobile 1120 15th Street c/o Summerville Campus Augusta, GA 30912 http://spots.gru.edu/bschmidt

 Please Feel Free to Contact me with Thoughts or Questions!

Direct Cell Phone: 706.836.9638

Email: bschmidt@gru.edu



How-to-Get-Your-Students-to-Do-Their-Assignments-



Blooms Tax

Return to #10 Flippling Defined

Return to #15 Step 2: Integrity

The level of thinking you want from a student in an assignment is based on the level from which you select the verb you use. The type of thinking required at each level becomes more complex as you go from knowledge to evaluation.

Levels of Student Thinkins Desired in an Assignment

Evaluation

Use these verbs to ask a student to make a judgment based on criteria.

This thinking skill tells you that a student can appraise, assess, or criticize on the basis of specific standards and criteria.

Synthesis

Use these verbs to ask a student to take parts of information to crease an original whole.

This thinking skill tells you that a student can originate, combine, and integrate parts of prior knowledge into a product, plan, or proposal that is new.

Analysis

Use these verbs to ask a student to show that he or she can see parts and relationships

This thinking skill tells you that a student can examine, take apart, classify, predict, and draw conclusions.

Application

Use these verbs to ask a student to use learning in a new situation.

This thinking skill tells you that a student can transfer selected information to a life problem or a new task with a minimum of direction.

Comprehension

Use these verbs to ask a student to show comprehension or understanding.

This thinking skill tells you that a student can grasp and interpret prior learning.

Knowledge

Use these verbs to ask a student to recall information.

This thinking skill tells you that a student can recall or recognize information, concepts, and ideas in the approximate form in which they were learned.



Bloom's Taxonomy

Blooms Ta

To Nicking Words
to Use it Assignments

Return to #10 Flippling Defined

Return to #15 Step 2: Integrity 6 Evaluation appraise, choose, compare, conclude, decide, defend, evaluate, give your opinion, judge, justify, prioritize, rank, rate, select, support, value

5 Synthesis change, combine, compose, construct, create, design, find an unusual way, formulate, generate, invent, originate, plan, predict, pretend, produce, rearrange, reconstruct, reorganize, revise, suggest, suppose, visualize, write

4 Analysis analyze, categorize, classify, compare, contrast, debate, deduct, determine the factors, diagnose, diagram, differentiate, dissect, distinguish, examine, infer, specify

3 Application apply, compute, conclude, construct, demonstrate, determine, draw, find out, give an example, illustrate, make, operate, show, solve, state a rule or principle, use

Comprehension

convert, describe, explain, interpret, paraphrase, put in order, restate, retell in your own words, rewrite, summarize, trace, translate

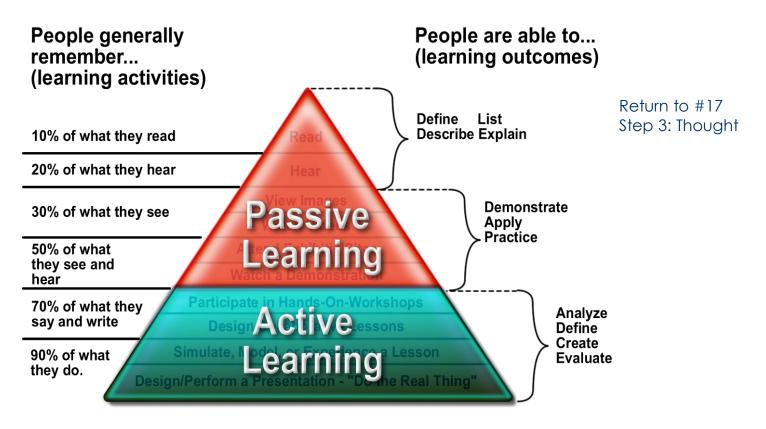
1 Knowledge define, fill in the blank, identify, label, list, locate, match, memorize, name, recall, spell, state, tell, underline

Bloom divided the verbs into six categories. All the verbs in a group indicate a kind of thinking skill needed to complete an assignment. The verbs denote what a student is to do.





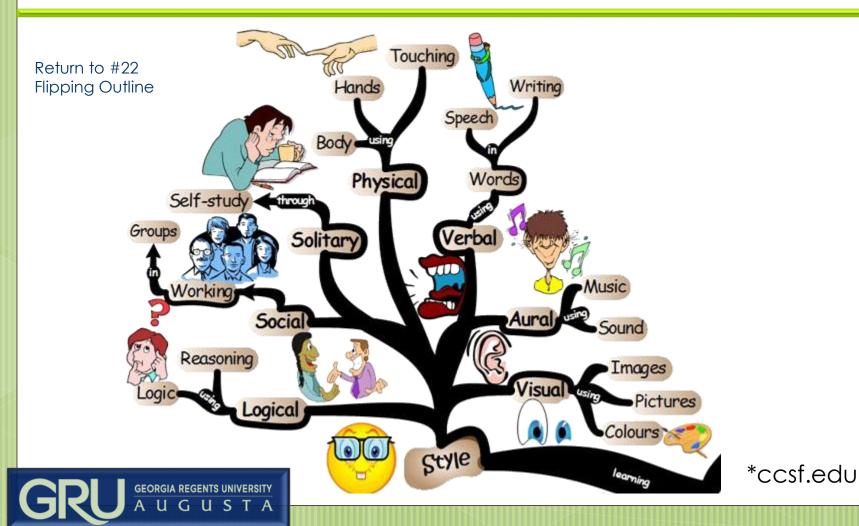
Active Learning





*wordpress.com

Learning Styles



Notes

