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On average, how much do you use group work in your class?

- Not at all
- Sometimes
- Often
- All the time- every class


## Agenda

## Research on Active <br> Learning and Group Work

Discuss and Engage in a
Variety of Group Activities

Making Research Based
Changes in your Classroom


## Employers want....

- Teamwork skills
- Communication skills


Koc (2011); Costigan \& Donahue (2009)

## Group Work Works! <br> Springer et al. (1999)

Increases in...

- Achievement
- Persistence
- Attitudes


Meta-analysis of 37 studies!

## Vygotsky's Sociocultural Theory



## Not all group work is equal...

Unstructured Group Work

- Talk to others about a topic
- May get off topic
- Monopolizers/Social loafers
- Minimal investment

Cooperative Group Work

- Structured
- Clear purpose
- Everyone is involved and accountable


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Brainstorming-
The Power of Groups?

(Mullen et al., 1991)



## Brainwriting (Paulus \& Yang, 2000; Heslin, 2009)

## Jigsaw Classroom (Aronson et al., 1978)

## HOME BASE GROUP <br> 3-5 students

EXPERT GROUP:
Work together to learn the topic and be
ready to teach your home base group
members

HOME BASE GROUP:
Teach each other


## Your Task:

Decide on "experts":

1. Self-selection vs. assigned groups
2. Strategies to equalize workload
3. Grading group work

In "expert" groups:
Discuss the topic
Determine 2-3 most
important points
Be prepared to "teach" your home base group membersthey are depending on you!


## In Expert Groups, Answer:

SELF-SELECTION vs. ASSIGNED GROUPS

Should you allow students to choose groups or should you assign students to groups? Why?

## EQUALIZING WORKLOAD

How can you reduce social loafing and increase the likelihood that all students are contributing?

## GRADING

Should you give individual, group, or combination grades? What are the advantages and disadvantages of each approach?

## Jigsaw Classroom <br> (Walker \& Crogan, 1998)



- Improved academic performance
- Better attitude toward peers
- Reduced prejudice


# Self-Selection Vs. Assigned Groups 

## Assign Groups



Assign Groups to avoid
homogeneous groups and to increase individual and group outcomes
(Hinds et al., 2000; McClelland, 2012)


Self-selection has NEGATIVE impact on minority and low
ability students (Shimazoe \& Aldrich, 2010)



Change Groups After a Few Sessions

- Changing groups led to better results than groups who stayed together for more than half a semester
(Tomcho \& Foels, 2012)


# Strategies to <br> Equalize Workload 



Group
Training, Rules and Roles




Group Roles

- Group Leader
- Note-Taker
- Visual Aid Leader
- Finishing Touch Specialist
- Questioner

Rehearsal Director
Harrington (2022)



Training students on group process works!

Peterson (2012)

## Team Skills TrainingPrichard et al. (2006)



## Results...

Group Score


Individual Score


## Group Work - Research Based Tips



Working individually on entire project BEFORE working together resulted in
better academic performance


Knowing full CONTENT
first (vs. part of the
content) led to better
performance

## Inter-teaching $\begin{gathered}\text { Bycee } \text { Hineine (2002) }\end{gathered}$



## Inter-teaching

Class Time


- Clarifying

Lecture

- Work in Pairs on Guided Reading Sheet


## Structured Problem Solving Approach



- Group members are informed that someone will be randomly chosen to report out on their work
- No one knows who is presenting what until the day of the presentation
(Millis 2002)



## Grading Issues



# Grading Group Work: The Student Perspective 



Barfield (2003)


## What about Introverts?

Although extraverts like group work more than introverts, they performed equally well on assessments



## Grading Self and Others

- Students tend to give high grades to self and peers

Group Work Accountability Log

| Trasks to be completed (Be specific!) | Proposed : <br> By which group <br> member? | Proposed: <br> By what date? <br> How will it be <br> shared with <br> others? | Actual: <br> Completion date- <br> By which group <br> member? |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Group Accountability Log 

## Individual vs. Group Grade



## Grading Considerations

(King \& Behnke 2005)

- Not everything needs to be graded
- Avoid "Firing" members
- Group grades can have negative interpersonal impact


What "take-away" did you get from this workshop?
What might you do
differently as a result of participating today?

Applying What You've Learned

## Brainwriting

1. Write down one "take-away" from this workshop on the index card.
2. Pass the card to your right.
3. Read the card. Add another "take-away". It can't be an idea written on the card or one you have already written on a card.
4. Continue passing the card to your right and writing additional "take-aways" until we tell you to stop.
5. Discuss the "take-aways" with your group.


Christine Harrington Ph.D.
Professor, Advanced Studies, Leadership and Policy
THANK YOU
Morgan State University
drchristineharrington@gmail.com
www.scholarlyteaching.org

