COOPERATIVE LEARNING

WHAT IS COOPERATIVE LEARNING?
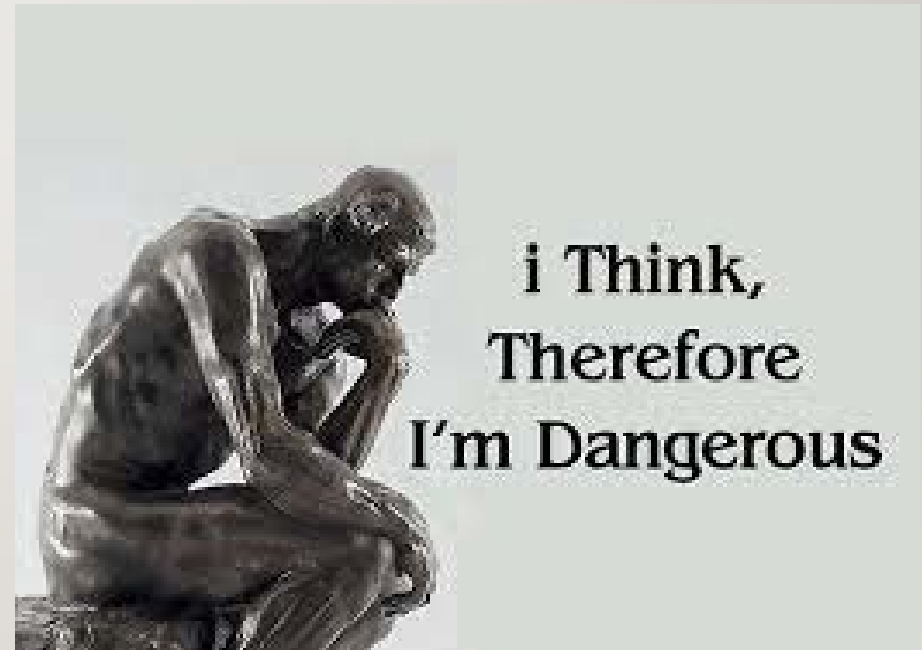
- Set of instructional methods for small groups

- Students learn and help others learn

HOW TO USE COOPERATIVE LEARNING

- Teach specific content

- Ensure active thinking

- Provide long-term support

i Think, Therefore I'm Dangerous

BENEFITS OF COOPERATIVE LEARNING

- Increase achievement

- Increase positive relationships

- Improve self motivation

- Increase self esteem

- Increase "on-task" behavior

- Improve attitude toward teachers and school

- Increase learning fun

- Improve 21st Century skills

FACE TO FACE INTERACTION

- Discussing

- Summarizing

- Explaining

- Elaborating

- Receiving feedback

TYPES OF COOPERATIVE LEARNING ACTIVITIES

- Discussion

- Reciprocal Teaching

- Graphic organizers

- Writing

- Problem solving

DISCUSSION

- Think-pair-share

  - Students reflect on question, share ideas/thoughts with partner, share with whole group

- Three-step interview

  - Students are paired, given set of questions they use to "interview" each other

  - Pairs match up, introduce partners, share responses

MORE DISCUSSION TYPES

- Numbered Heads
  - Students placed in group and numbered
  - question posed
  - group finds answer
  - teacher calls number as spokesperson
  - can ask for help from group

RECIPROCAL TEACHING

- Note-taking pairs
  - Students take notes, then review their notes together-fill in missing pieces/ideas
- Roles
  - Teacher/leader, summarizer, clarifier, questioner, predictor
- Jigsaw
  - Class is divided into teams, each team prepares different but related assignments
  - Class re-divided into mixed groups (one member from each team)
  - New team puts all pieces of assignment together

GRAPHIC ORGANIZERS

- Group grid
  - Students practice organizing and classifying information in table
- Sequence chains
  - Visual representation of series of events

WRITING

- Peer editing

- Posters/infographics

  - Present curriculum content (vocabulary/big ideas)

- Brochures

  - Topic

  - Thematic

  - Project

PROBLEM SOLVING

- Send-a-problem
  - Students participate in problem solving rounds, come up with solution to problem, compare with other groups' solutions, evaluate all solutions, come up with final solution

- Three-stay, one-stray
  - Students periodically take a break, send one member to another group to describe their process, repeat as necessary

THINGS TO KEEP IN MIND

- Practice before real assignments

- Use Ice breakers

- Keep it positive

- Keep groups small

RESOURCES

- **From The Teacher's Sourcebook for Cooperative Learning by Jacobs, Power, and Inn**

- http://pacweb.alamo.edu/FacultyDev/pdf/Pats_files/Cooperative%20Learning%20Handouts%20&%20Lesson%20Examples.PDF

- **Description of "Numbered Heads" strategy**

- https://www.teachervision.com/group-work/cooperative-learning/48538.html

- **PowerPoint "Engaging Students Through Cooperative Learning: Ideas for Success by Laura Schulz**

- http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0ahUKEwjw9bnl353MAhUEsIMKHYspDbEQFggoMAE&url=http%3A%2F%2Fwww.polyhigh.org%2Ffaculty_resouces%2Fextended_period%2Fcoo plearning_mod.ppt&usg=AFQjCNHS30y6FNB7qj6VFL78JbaBjYY0fg&sig2=WqZx4HBjFPLd4DOjccW4cw

RESOURCES CONT'D

- **Starting Point: Supports teaching Geoscience. Has many resources for using different teaching strategies in a classroom**

- http://serc.carleton.edu/introgeo/cooperative/techniques.html

- http://serc.carleton.edu/sp/library/jigsaws/index.html

- **From: *Collaborative Learning Techniques Workshop*, presented by Bill Cerbin, April 23, 2010 Center for Advancing Teaching & Learning, UW-La Crosse**

- http://www.uwlax.edu/catl/studentlearning/presentations/collaborativelearningtechniques handout.pdf