

Structures for Successful Teamwork



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A Quick Roadmap



- Teamwork activity
- Elements essential to teamwork and cooperative learning
- Exploring the elements with a jigsaw
- An example of teamwork and cooperative learning applied to a cornerstone design project
- Your applications

Activity Time!



- Get into a group of 3 or 4.
- Quickly introduce yourselves.
- Select a record keeper for your team.
 - Record keeping duties are very light

Activity – Part 1



- You have 5 minutes to answer as many puzzle items as you can.
- You may use:
 - Your brain
- IN SILENCE, count how many items you have a reasonable answer for.
- Write this number in the lower left of your paper.

Activity – Part 2

- Maintain SILENCE in the group.
- We will count to 30. When we say the number of an item you have an answer for, raise your hand.
- The record keeper will tally how many items someone on the team has an answer for.
- Each member of the team should write that number in the middle bottom of the page.



Activity – Part 3



- Take 5 minutes to discuss and answer as many more items as you can.
- Tally the number of items you have answers for now.
- Write this number in the lower right corner.

Why Did We Do This?

- There are many correct answers!
- Some possibilities:
 - Teamwork requires a worthy task.
 - Different people see different connections (aka, diversity is good!)
 - Teamwork is more than adding individual results together.
 - Knowing who is responsible for what can aid efficiency and effectiveness



Reflection

- Think about an experience (or imagine an experience) where cooperative learning was tried in the classroom and came up short.
- Describe the experience to others at your table.
- What factors might have contributed to the lack of success?



What Constitutes Cooperative Learning?



1) Positive Interdependence

The group has a reason for cooperating – they will sink or swim together.

What Constitutes Cooperative Learning?



2) Individual Accountability

No freeloaders, hitchhikers, or suckers.

What Constitutes Cooperative Learning?



3) Group Processing

The group must reflect on their performance.

What Constitutes Cooperative Learning?



4) Small Group Social Skills

The group must be civil in their interactions.

What Constitutes Cooperative Learning?



5) Face-to-Face Promotive Interaction

It's not about working side-by-side and checking answers at the end – it's about working together and making decisions together throughout the process.

What Constitutes Cooperative Learning?



- Positive Interdependence
- Individual Accountability
- Group Processing
- Small Group Social Skills
- Face-to-Face Promotive Interaction

What Instructional Practices Support These Elements?



- We will explore this question through a cooperative learning structure called a jigsaw activity.

The Jigsaw

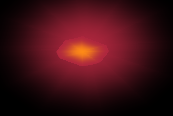
- Within your current “base group,” each person chooses one of the elements to focus on
- Your groups will split up such that all those focusing on the same element will get together and develop some local expertise.
- You will then rejoin your base groups and teach each other.



What Constitutes Cooperative Learning?



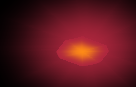
- Positive Interdependence
- Individual Accountability
- Group Processing
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Reflection

- Think about a class you teach where there are tasks which would benefit from teamwork.
- How might you incorporate cooperative learning in your class?



What Constitutes Cooperative Learning?



- Positive Interdependence
- Individual Accountability
- Group Processing
- Small Group Social Skills
- Face-to-Face Promotive Interaction

Reflection

- Some cooperative learning examples from a cornerstone design project in first-year engineering.



Contact Information



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