Using POGIL Activities in a Synchronous Virtual Setting

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Lancaster Country Day School
Lancaster, PA
Agenda

• What is POGIL?
• Process Skills in the virtual environment
• Keeping breakout rooms productive
What is POGIL Pedagogy?

- **Process Oriented (Cooperative Learning):** Develop Key Process Skills
- **Guided Inquiry (Constructivism):** Learning Cycle Activities

Process Oriented Guided Inquiry Learning
Process Skills

- Information Processing
- Critical Thinking
- Problem Solving
- Oral and Written Communication
- Teamwork
- Management
- Self-Assessment & Metacognition
Learning Cycle

- Orient
- Explore
- Invent
- Apply
- Close

induce ➔ Invent ➔ Apply ➔ Explore ➔ Orient ➔ deduce
The POGIL Approach

• Learners construct their own knowledge
• Learners work in self-managed teams
• Learners teach, discuss and learn from other learners
• Activities use the Learning Cycle paradigm
• Instructors facilitate learning
• Instructors attend to cooperative learning principles and process skills
• Reflection enhances learning, team function and teaching practice
• Research informs teaching practice
Process Skills in Virtual Environment

- Use roles with defined tasks
- Provide Process Skills feedback
  - Comment on Process Skills in breakout rooms
  - Chat function with reflector
  - Team check-in assessments
# Roles

<table>
<thead>
<tr>
<th>(team#) name/role</th>
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<tbody>
<tr>
<td>Team 1</td>
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<td>Team 2</td>
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<td>Team 5</td>
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<table>
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<th>Manager</th>
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<tr>
<td>Recorder</td>
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<td>Presenter</td>
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<td>Reflector</td>
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Process Skills Team Check-in

Give yourself a point for each of the team building behaviors below. Show with fingers on one hand your total score.

- Asked a question when I didn’t understand something.
- Restated what I thought a teammate said to clarify my understanding.
- Asked a teammate, who had been quiet for awhile, what they were thinking.
- Took a risk and suggested something about which I was not sure.
Keeping Breakout Rooms Productive

• Use Google slides for instructions
• Report out methods
  – Google slides tables
  – Google forms
  – Polling
  – Thumbs up, raise hand
• Broadcast timing cues
Instructions in Google Slides

Model 1 (8 minutes)

Work as a team to answer questions 1-7. As answers are decided by the team, fill in your activity at home. Model 1 is provided on the next slide for your convenience.

When you finish question #7, give the recorder and reflector time to fill out their reports. If you finish early, return to the Main Room.
Reporting Out with Google Slides

Report Out - Question #4  Enter your team’s definition of “deviation”.

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Google Forms

When you finish Question #12, fill in this Google Form and return to the Main Room.

[Question #12 Assessment Google Form]
How To - Zoom Breakout Rooms
How to - Zoom Breakout Rooms
How to - Zoom Breakout Rooms

[Image of a Zoom meeting with a breakout rooms window open.]
How to Zoom - Breakout Rooms
How to - Google Meet Rooms

Chemistry Block 5 Teams

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<tr>
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<td>Asia, Ben, Ning, Jaun</td>
</tr>
<tr>
<td>Team 4</td>
<td>Alyssa, Andy, Nayana, Han</td>
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<tr>
<td>Team 5</td>
<td>Bian, Mika, Elena, Alanzo</td>
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Classroom Link
How to - Google Meet Rooms
How to - Google Meet Rooms
How to - Google Meet Rooms

Meeting ready
meet.google.com/kmy-kpqc-wna
Dial-in: (US) +1 540-669-0007 PIN: 612 069 506#
Join now
Present
Other options
Join and use a phone for audio
How to - Google Meet Rooms

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How to - Google Meet Rooms

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Questions?