

3. Cooperative Group Problem Solving in Discussion Sections

This chapter contains some materials we use in teaching problem-solving and cooperative group skills to our students. These materials are described briefly below.

	Page
Why Cooperative Group Problem Solving?	39
<p>This brief summary explains why we use cooperative-group problem solving in our introductory physics courses, and what we see as the advantages and disadvantages of cooperative group problem solving (see also Heller, Keith & Anderson and Heller & Hollabaugh, 1992, <i>American Journal of Physics</i>, 60: 627-644).</p>	
Frequently Asked Questions (FAQ) About Cooperative Groups	40
<p>We use this handout in our TA Orientation. It gives a brief introduction to the structure of our labs, and answers the following questions:</p> <ul style="list-style-type: none">What is the optimal group size?Should students be allowed to form their own groups? If not, what should be the gender and performance mix of the groups?How often should groups be changed?How can problems of dominance by one student and conflict avoidance within a group be addressed?	
General Plan for Teaching a Discussion Section	43
<p>This is a handout we use in TA Orientation. It gives detailed (and repetitious) teaching tips for how to conduct cooperative-group problem solving discussion sessions. More detailed descriptions of instructor actions can be found in <i>Active Learning: Cooperation in the College Classroom</i> by Johnson, Johnson, and Smith (1991).</p>	
Chart of Group Roles	48
<p>We pass out this chart to students the first day they work in cooperative groups. This chart introduces students to their problem-solving roles. The roles were selected to correspond to the planning and monitoring strategies individuals must perform independently when solving problems – the manager who designs plans of action; the skeptic, who questions premises and plans; the recorder, who organizes and writes what has been done so far; and the summarizer, who keeps track of decisions and reasons for different actions (see also Heller & Hollabaugh [1992], <i>American Journal of Physics</i>, 60: 637-644). We normally assign groups of three (Manager, Recorder/Checker, and Skeptic); the fourth role of Summarizer is used when the size of the class is not divisible by three, so some groups will have four members. In groups of three, the Manager takes on the summarizer role.</p>	

Cooperative Group Problem

WJ Hussar



Cooperative Group Problem:

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Table of Contents Cooperative Group Problem

1. Understanding the eBook Cooperative Group Problem
 - The Rise of Digital Reading Cooperative Group Problem
 - Advantages of eBooks Over Traditional Books
2. Identifying Cooperative Group Problem
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cooperative Group Problem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cooperative Group Problem
 - Personalized Recommendations

- Cooperative Group Problem User Reviews and Ratings
- Cooperative Group Problem and Bestseller Lists
- 5. Accessing Cooperative Group Problem Free and Paid eBooks
 - Cooperative Group Problem Public Domain eBooks
 - Cooperative Group Problem eBook Subscription Services
 - Cooperative Group Problem Budget-Friendly Options
- 6. Navigating Cooperative Group Problem eBook Formats
 - ePub, PDF, MOBI, and More
 - Cooperative Group Problem Compatibility with Devices
 - Cooperative Group Problem Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cooperative Group Problem
 - Highlighting and Note-Taking Cooperative Group Problem
 - Interactive Elements Cooperative Group Problem
- 8. Staying Engaged with Cooperative Group Problem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cooperative Group Problem
- 9. Balancing eBooks and Physical Books Cooperative Group Problem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cooperative Group Problem
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cooperative Group Problem
 - Setting Reading Goals Cooperative Group Problem
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cooperative Group Problem
 - Fact-Checking eBook Content of Cooperative Group Problem

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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