

Learning and Transfer of Learning Through Group Interaction*

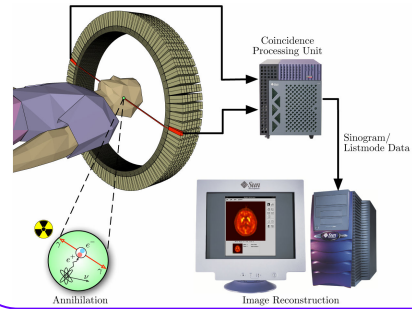
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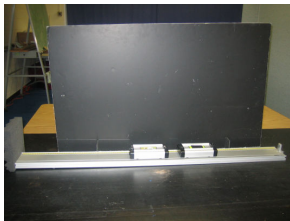
Positron Emission Tomography



Source:wikipedia

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Physical Models



Cart activity



Light activity

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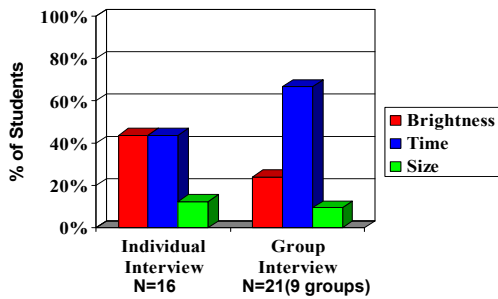
Group Teaching Interview

- Format:
 - Use of worksheet
 - Minimal teacher intervention
- 21 Participants (9 groups)
 - 10 Females, 11 Males
- Algebra-based physics
 - Biology, Animal science majors



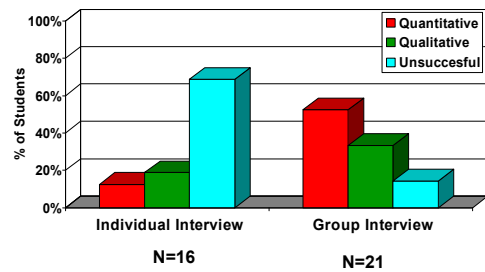
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Students' Consideration of Factors for Locating Events



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Student Performance : Locating Hidden Events



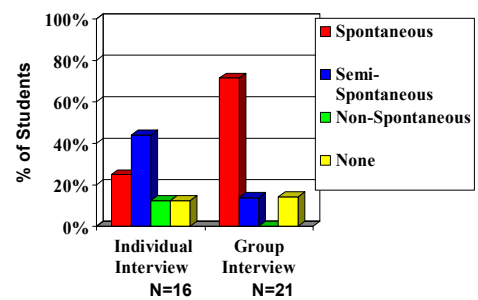
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Students' Transfer of Learning to PET

- Spontaneous Transfer
 - Automatically relate physical model to PET
- Semi-Spontaneous Transfer
 - Relate physical model to PET after being asked general question
- Non-Spontaneous Transfer
 - Relate physical model to PET after being asked specific question

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Transfer from Models to PET



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Instructional Implications

- Encourage peer group interaction to help students...
 - explore a variety of approaches
 - build on each other's ideas to solve problems
 - activate peers' appropriate reasoning resources to learn and transfer learning



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Thank You!!!

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