POSTERS YOU CAN COUNT ON

How to manage 25 individual research projects simultaneously

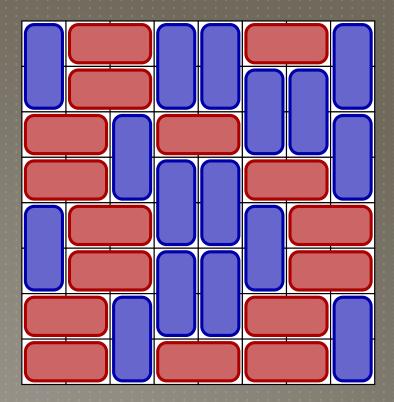
Christopher R. H. Hanusa Queens College Mathematics

WHAT IS COMBINATORICS?

The material

Better ways to count

 The course (Math 636)
 25 students
 Active learning
 Individual Research & Poster Presentation



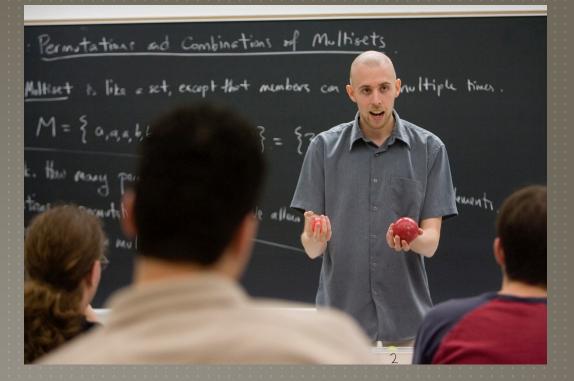
12,988,816

ACTIVE LEARNING

Engaging, inviting classroom

► Think Pair Share, Groupwork

High expectations



(Join our Experiential Learning Group!)

Christopher R. H. Hanusa Queens College, CUNY

TERM-LONG PROJECT

THE PROJECT

Research a combinatorial question of your choosing and present your findings through a poster.

DELIVERABLES

- Poster
- ► Writeup
- Checkpoints



- Apply topics learned throughout semester
- ► Taste of research
- Hands On = Active learning
- Experience and appreciate the diversity of our students

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CHOOSING A TOPIC

Goals:

Student engagement
Diversity of topics
Complete freedom in topic
Intimidating!
Interests outside school
Then hone the scope!
Grain of an idea
Experience as a researcher

RECENT TOPICS

- Running in Central Park
- Guitar chords
- Korean Drama plotlines
- Android lock codes
- World Cup Soccer

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ENSURING SUCCESS

Students invested in topic

▶ Be available. Be flexible.

Provide structure, timeline
 Week 7: Topic
 Week 9: Outline
 Week 14: Poster work day

Poster Session during Finals Week

Christopher R. H. Hanusa Queens College, CUNY

Teaching Innovation Carnivale May 9, 2014



Christopher R. H. Hanusa Queens College, CUNY Teaching Innovation Carnivale May 9, 2014

SELF REFLECTION

Amazing culmination of semester

Is there more?
Wider audience?
Research article?
Should there be more?
Open to your thoughts....



http://whatif.xkcd.com/imgs/a/14/ short answers headscratch.png

THANK YOU!

qcpages.qc.edu/~chanusa

> Course Archive Plenty of Posters > Talks Slides Available

Binghamton University Center for Learning and Teaching
Institute for Student-Centered Learning Conference.

My students, who amaze and inspire, EVERY TIME!

Christopher R. H. Hanusa Queens College, CUNY

Teaching Innovation Carnivale May 9, 2014