Have Tardis Will Travel

Or
How to Make Friends with Scientists
Or
English and STEM curriculum
About Madeira
All Girls Boarding and Day School
24 Countries, 20 states
Modular Schedule
  My class:
  Paperless
  One note
  Tech components
  Problem or Game Based Learning
What is STEM/STEAM?

• Science, Technology, Engineering, Math
• Focus is on developing interest in science/inquiry based fields
• Analytical and Higher Reasoning Skills
• Cooperative Learning Skills
• Interdisciplinary among the sciences

• Science, Technology, Engineering, Arts, and Math
• Modern literacy in arts and sciences
• Focus on college prep, traditional
• Real applications
• Leadership or Cooperative based
So you want to sit at the cool table....

- Most projects were based on building/designing or problem
- But lacked involvement from English and History (not the cool kids)
- My department suddenly was not fun, and I wanted to play with the microscope.
What I learned from dialogue:
1. Curriculum isn’t compatible
2. Sacrifice
3. Territorial
4. Lack of Subject Matter Expertise
5. Advil is really effective

What I know from my teaching:
1. Inquiry
2. Communicate
3. Communal
4. Good readers do not mean reads well
Dear Scientist...we really are compatible..

- Subject Specific Jargon
- Literacy Matters/Concerns
- Series of themes and processes

QUESTION: What do you need to build an integrated English (or any humanities) and Science (or T,E,M) collaboration?
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- Time.
- Money (somewhat)
- Patience
- Backwards design
- Entry point (icebreaker to talk to your scientist)
What I Learned from Talking to Actual Science Teachers

• Their curriculum is fixed. (They’re not lying about it.)
• They innately are problem based and often project based.
• Organization is important, and often keeps you from burning down the building.
• Measurable objectives are amazing and part of the outcome.
• They really do like to read.
• They also like to write. And it’s not boring.
• They are really good visual mappers.
Ok, so if I can’t come to you....

Q: How do I get science to want English?

A: I’m going to make a science fiction class. With robots. And superheroes. And time travel. And maybe Gremlins.

"Use the force, Luke"

-Dumbledore
NOBODY CAME TO MY PARTY.

I don’t need another friend.
Students will examine ethical issues facing modern society by reading fiction of the future. We will debate the moral dilemmas found in science fiction such as self-enhancements, the alien other, censorship, and the role of government. This module asks you to explore the benefits and dangers of science and to reconcile them with our civic responsibilities and human rights. Texts include George Orwell’s *1984*, Phillip K. Dick’s *Do Androids Dream of Electric Sheep*, Alan Moore’s *Watchmen*, along with excerpts from the greats (such as Asimov and Bradbury).
In the meantime...

I revisited my science colleague about our summer reading...
The Poe Files
BRAVE NEW WORLD
ALDOUS HUXLEY

FROM HELL
ALAN MOORE & EDDIE CAMPBELL

SHAKESPEARE'S
ROMEO & JULIET
PRESENTED BY
MICHAEL ROSEN AND JANE RAY

EMILY BRONTE
WUTHERING HEIGHTS