



# ADD ME Advanced Moves

## SUMMARY

**Advanced Moves:** Adding new, substantial (but still sustainable) practices to create more space for students to bring their own experiences and values to learning activities:

- **L.E.D. Interviews** – Students conduct LED interviews with family, friends, or community members' experiences learning mathematics.
- **Family, Friends, or Community Scavenger Hunts** – Find a person who...; Take a picture of...; Share an example of...
- **Community or other context-based research projects**
- **Monthly Modeling Challenge** – Devote a day (e.g. first Friday of every month) to a mathematical modeling task
- **Celebrate math-themed holidays** – Pi Day, Mathematics and Statistics Awareness Month



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1. **Learn-Explore-Discover (LED) Interviews** – Students can play the role of investigative reporters, historians, etc. and conduct LED Interviews with family, friends, or community members to learn, explore, and/or discover their experiences with using mathematics.

LED Interviews can be done monthly and the students can have free choice about who to interview or be given varying guidelines each month

*e.g. Must be someone at least 30 years older than you; no more than 2 years older than you; in your family; outside of your family, who works at a store, church, or other establishment you go to frequently, who they admire...etc.*

Interviews should start with a question about how they use math in general, then focus on a specific concept or idea being learned in class. If the interviewee claims not to use math, or the particular concept, they should work together to **explore** their daily routines or work duties to try to **discover** a way they might use it without realizing it. If they cannot come up with anything, they should discuss why, and/or if there are ways it might be helpful.



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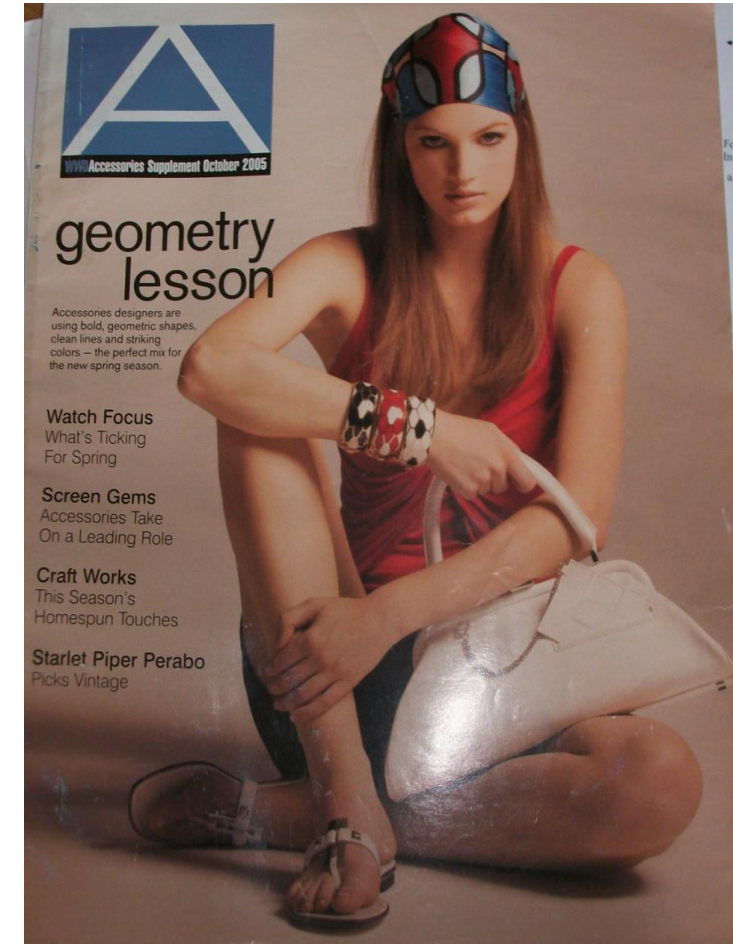
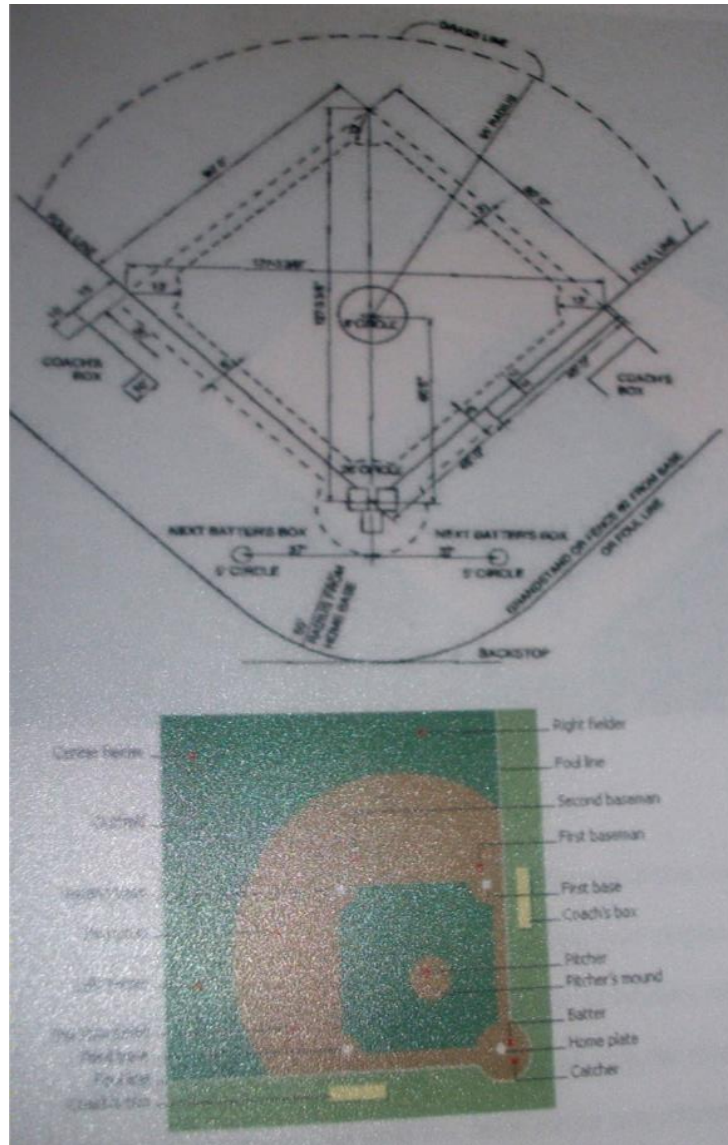
- 2. Family, Friends, or Community Scavenger Hunt** – A series of tasks or artifacts the student must collect related to what is being learned in class. This can be 2-4 times per year. Students can be asked to...
  - Find a person who... (e.g. has written an algebraic expression or equation outside of school);
  - Take a picture of... (e.g. the graph of a linear function);
  - Share an example of... (e.g. how you can use variables on the weekend)
- 3. Community or other context-based research projects** – Students can select a topic of their choice and research how algebra is part of things that interest them. This can make a great final project!  
*e.g. The Algebraic features of ...New York City, Music, Video Games, Sports, Art, the Ocean, Boating...*



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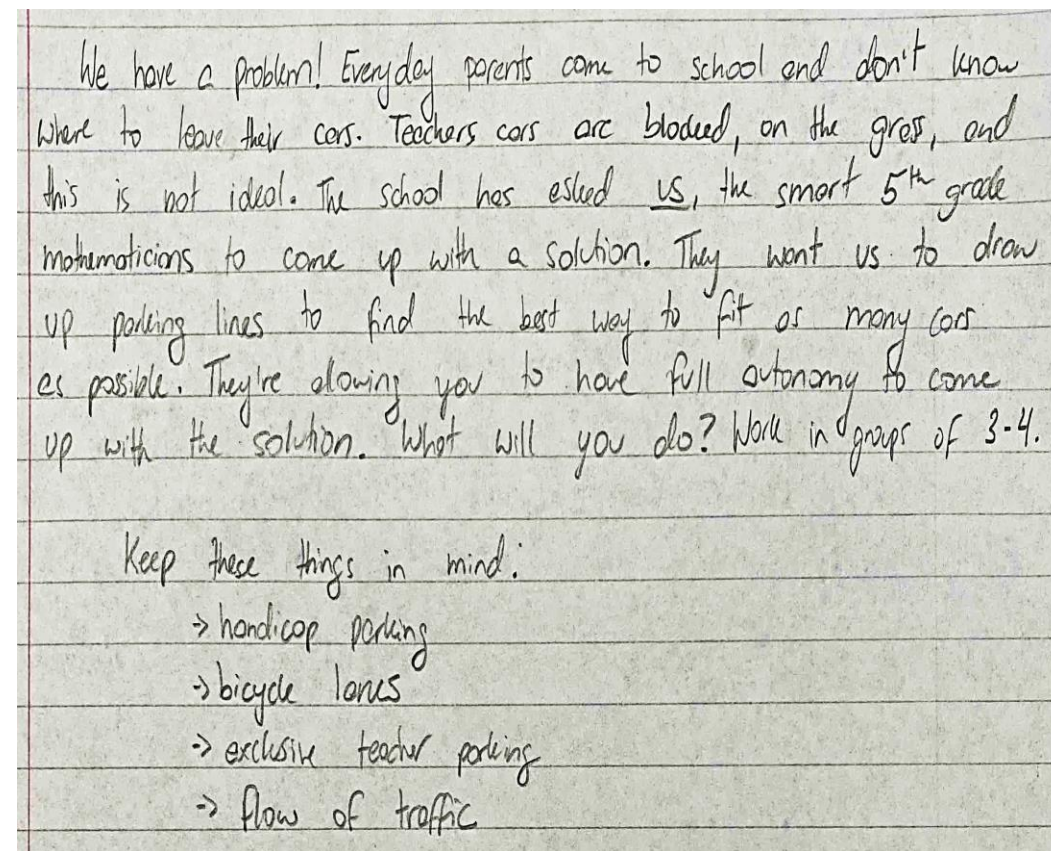
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4. **Monthly Modeling Challenge** – Once a month, consider devoting a class period to a mathematical modeling problem (MMP). MMPs meet the following criteria:

- Open ended
- No correct answer
- Require students to make assumptions
- Ask students to propose AND justify a solution

MMPs allow students to bring their own experiences, resources, ideas, and perspectives to solving a problem.

*Ex. You have a week off from school and you want to visit four colleges – University of Florida, Florida State University, University of South Florida, and Florida International University. Create a schedule and a plan for visiting all four universities during your spring break.*



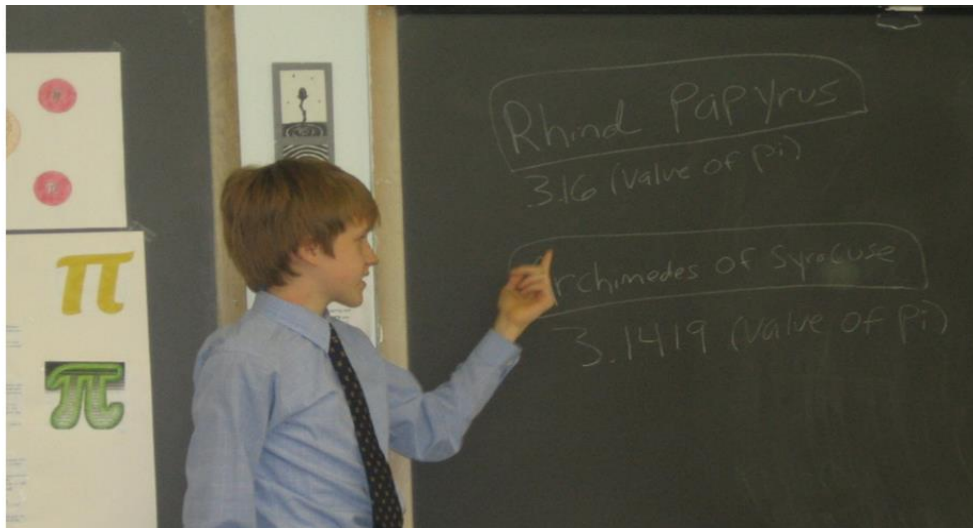
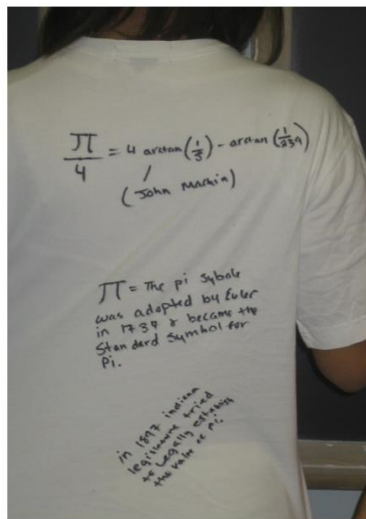


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## 5. Celebrate special math-themed holidays

*Pi Day, Mathematics and Statistics Awareness Month*

Give students a chance to get creative and mark the holiday with an image, a poem (pi-ku), a song...



## The Pi Song...

Do the  $\pi$  -on the floor

it's the 3 - .14 (point one four)

The number that keeps runnin' runnin'

It'll just keep on runnin' runnin'

First around - then across

then divide - and you'll find

The number that keeps runnin' runnin'

It'll just keep on runnin' runnin'

