

What does the past tell us about the future?

What variables limit or sustain the continuation of a trend?

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Track the Trends Project

 You will be taking on the role of a statisticians to collect and analyze statistical information about a subject over time

• Use the past to predict the future

 Integrate mathematics, statistics, and technology



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Step 1 – Review Project Expectations

• You will be creating:

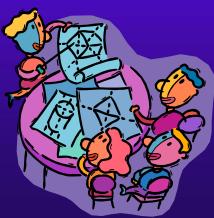
 A slideshow about the trend and possible implications, using mathematical tools of statistical analysis

AND either

A newsletter with brief articles and graphs about possible effects and implications of the trend

OR

- A wiki about the topic, including implications and effects
- Review Project Rubric and Checklists and self-assess your work as you go
- Conferences to check on progress will be held next week



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Step 2 – Pick a Topic

- Pick a subject that interests you and your partner.
- Examples: cancer rates, population changes, baseball salaries
- Come up with three possible topics and we will choose so there is no overlap with other groups.



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Step 3 – Research Your Subject

Use the Internet and library for research
Need data from at least 5 separate years/time periods



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Step 4 – Apply Math to Data

Using graphing calculator,

 Find equation for curve of best fit (exponential regression)
 Find correlation coefficient

 Using equation, make prediction for at least five future years/time periods



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Step 5 – Future Implications

- Now that you have made future predictions using your equation, brainstorm potential ramifications.
- How does a trend affect people's choices?
- What will our quality of life be like in the future?
 - Social
 - Environmental
 - Economic
 - Political
 - Medical



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Steps 1 – 5 must be satisfactorily completed before you get on the computer starting Monday, March 15

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Step 6 – Graph your Data

- Make a spreadsheet with three columns:
 - Column 1 = Year
 - Column 2 = Historical Data
 - Column 3 = Data if using formula (best fit)
- Create "XY Scatter" graph of spreadsheet
 - Historical Data (points)
 - Formula Calculations (best fit line)

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Step 7 – Create a Presentation and a Publication or Wiki

- Include the following elements:
 - Data from research
 - Mathematical analysis

- Excel graph of historical vs. best fit data
- Discussion of future implications
- Pictures/graphics/sounds that enhance content
- Select internet resources for more info
- Sources cited
- Self-Assess with checklist and rubric

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Step 8 – Present Slideshow to Class

- Electronic documents are due to me no later than Friday, March 19.
- You and your partner will present to entire class on Tuesday, March 23.
- Presentation can be no longer than 5 minutes.



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