

Who invented Calculus?

Fall 2009

There has been great controversy over the years as to who is the real inventor of Calculus. This controversy may soon come to an end with your help. You will be asked to research the controversy and then choose who you believe invented Calculus. Then teams will be formed and a debate will be planned to finally put the controversy to an end.

Part 1 – Individual Research

Quick Look:

1. Come up with who you think are the top 5 contenders for the crown of Inventor of Calculus

In Depth Look: Develop a briefing/point paper to include the following information:

1. 5 reasons why _____ is the true inventor of Calculus
2. 5 reasons why _____ is the true inventor of Calculus
3. 5 reasons why _____ is the true inventor of Calculus
4. 5 reasons why _____ is not the inventor of Calculus
5. 5 reasons why _____ is not the inventor of Calculus
6. 5 reasons why _____ is not the inventor of Calculus

List your supporting documentation for each reason along with your source.

Part 2 – Team Presentation

Develop a briefing using PowerPoint to include the following information:

1. 10 reasons why your contender is the true inventor of Calculus
2. 10 reasons why others are not the inventors of Calculus
3. A timeline of the important dates in this debate
4. Documentation of your sources

Part 3 – Debate – each member of the debate team must present some type of evidence

Day 1

10 minutes for presentation of claim for _____
10 minutes for presentation of claim for _____
10 minutes for presentation of claim for _____
5 minutes for rebuttal for _____
5 minutes for rebuttal for _____
5 minutes for rebuttal for _____

Day 2

15 minutes for questions by panel
5 minutes for voting
10 minutes for final decision by panel

****A panel will decide who is the “Inventor of Calculus.”****

Timeline

_____ : Project Introduction
_____ : Quick Look
_____ : In Depth Look briefing due, Teams formed and debate preparation begins
_____ : PowerPoint brief due to Mr. Duhrkopf
_____ : Debate Days!

Grading

Part 1: 50 pts
Part 2: 50 pts
Part 3: 25 pts

Extra credit may be given for being selected as the “Inventor of Calculus” for the whole group

Who invented Calculus? Spring 2009

Newton vs. Leibniz



There has been great controversy over the years as to who is the real inventor of Calculus. This controversy may soon come to an end with your help. You and your peers will be assigned one of the 2 claimants and will be responsible for proving the claim of your client. We will use the debate format to decide the winning team.

Day 1

2 minutes for opening arguments for Newton
2 minutes for opening arguments for Leibniz
10 minutes for presentation of claim for Newton
10 minutes for presentation of claim for Leibniz
5 minutes for rebuttal for Newton
5 minutes for rebuttal for Leibniz
10 minutes for point/counterpoint

Day 2

10 minutes for questions by the panel
5 minutes for final claim for Newton
5 minutes for final claim for Leibniz

A panel will decide who is the “Inventor of Calculus.”

Team Responsibilities

- Each team will consist of 7-8 individuals.
- Each individual must be assigned a specific area of responsibility.
- All team members are responsible for research and development of the case.
- Each member of the debate team must present some type of evidence.
- PowerPoint briefing of your case due the day before the debate. (file and printout)
- PowerPoint must include a timeline of the important dates in this debate.
- Strictly adhere to the time limits. Penalties will be assessed for violations.
- Document and verify sources of information.

Timeline

Mar. 17th : Project Introduction
Mar. 18th – 24th : Project research and development
Mar. 24th : PowerPoint brief due to Mr. Duhrkopf
Mar. 25th and 26th : Debate Day!

Grading

50 test pts for the individual grade consisting of:

- Individual performance in your area of responsibility
- Completion of personal and group evaluation sheet

Extra credit may be given for being selected as the “Inventor of Calculus” for the whole group

Who invented Calculus? Fall 2007

Newton vs. Leibniz



There has been great controversy over the years as to who is the real inventor of Calculus. This controversy may soon come to an end with your help. You and your peers will be assigned one of the 2 claimants and will be responsible for proving the claim of your client. We will use the debate format to decide the winning team.

Day 1

2 minutes for opening arguments for Newton
2 minutes for opening arguments for Leibniz
10 minutes for presentation of claim for Newton
5 minutes for cross-examination by Leibniz
5 minutes for rebuttal for Newton
10 minutes for presentation of claim for Leibniz
5 minutes for cross-examination by Newton
5 minutes for rebuttal for Leibniz

Day 2

10 minutes for questions by the panel
5 minutes for final claim for Newton
5 minutes for final claim for Leibniz

****A panel will decide who is the “Inventor of Calculus.”****

Team Responsibilities

- Each team will consist of 4-5 individuals.
- Each individual must be assigned a specific area of responsibility.
- All team members are responsible for research and development of the case.
- Each member of the debate team must present some type of evidence.
- The cross-examination will be in a question/answer format.
- PowerPoint briefing of your case due the day before the debate. (file and printout)
- PowerPoint must include a timeline of the important dates in this debate.
- Strictly adhere to the time limits. Penalties will be assessed for violations.
- Document and verify sources of information.

Timeline

Nov. 8th : Project Introduction
Nov. 9th – 15th : Project research and development
Nov. 15th : PowerPoint brief due to Mr. Duhrkopf
Nov. 16th : Debate Day!

Grading

50 test pts for the individual grade consisting of:

- Individual performance in your area of responsibility
- Completion of personal and group evaluation sheet

Extra credit may be given for being selected as the “Inventor of Calculus” for the whole group

Who invented Calculus? Fall 2006

Newton vs. Leibniz



There has been great controversy over the years as to who is the real inventor of Calculus. This controversy will soon come to an end with your help. You and your peers will be assigned one of the 2 claimants and will be responsible for proving the claim of your client. We will use the debate format to decide the winning team.

- 2 minutes for opening arguments for Newton
- 2 minutes for opening arguments for Leibniz
- 10 minutes for presentation of claim for Newton
- 5 minutes for cross-examination by Leibniz
- 10 minutes for presentation of claim for Leibniz
- 5 minutes for cross-examination by Newton
- 5 minutes for final claim for Newton
- 5 minutes for final claim for Leibniz
- 5 minutes for questions by the 3-person panel

****A 3-person panel will decide who is the “Inventor of Calculus.”****

Team Responsibilities

- Each team will consist of 7 individuals. 5 members for the debate and 2 Power Pointers’.
- Each individual must be assigned a specific area of responsibility.
- All team members are responsible for research and development of the case.
- Each member of the debate team must present some type of evidence.
- The cross-examination will be in a question/answer format.
- PowerPoint briefing of your case due the day before the debate. (file and printout)
- PowerPoint must include a timeline of the important dates in this debate.
- Strictly adhere to the time limits. Penalties will be assessed for violations.
- Document and verify sources of information.

Timeline

- Nov. 6th : Project Introduction
- Nov. 7th – 11th : Project research and development
- Nov. 12th : PowerPoint brief due to Mr. Duhrkopf
- Nov. 13th : Debate Day!

Grading

50 test pts for the individual grade consisting of:

- Individual performance in your area of responsibility
- Completion of personal and group evaluation sheet

5 test pts extra credit for being selected as the “Inventor of Calculus” for the whole group

Who invented Calculus? Fall 2005

Newton vs. Leibniz



There has been great controversy over the years as to who is the real inventor of Calculus. This controversy will soon come to an end with your help. You and your peers will be assigned one of the 2 claimants and will be responsible for proving the claim of your client. The format for this project will be a trial/debate and will proceed as follows:

- 2 minutes for opening remarks for Newton
- 2 minutes for opening remarks for Leibniz
- 10 minutes for presentation of claim for Newton
- 5 minutes for cross-examination by Leibniz
- 10 minutes for presentation of claim for Leibniz
- 5 minutes for cross-examination by Newton
- 5 minutes for final claim for Newton
- 5 minutes for final claim for Leibniz

**Mr. Duhrkopf and possibly a jury will be presiding over the trial/debate and will decide who is the “Inventor of Calculus”.

Team Responsibilities

- Each team will consist of 6-7 individuals.
- Each individual must be assigned a specific area of responsibility. Areas that need to be assigned: lawyers, witnesses, developers, recorders, and Power Pointer’s.
- All team members are responsible for research and development of the case.
- Potential witness list due to Mr. Duhrkopf at the end of the 3rd research day.
- PowerPoint briefing of your case. (When complete put into Mr. Duhrkopf’s Calculus folder on Server-8)
- Complete evaluations on yourself and each member of your group.
- Strictly adhere to the time limits. Penalties will be assessed for violations.
- Document and verify sources of information.

Timeline

- 3 class days for research and development
- 2 class days for the trial (1 trial each day)

Grading

- 50 test pts for the individual grade consisting of:
 - Individual performance in your area of responsibility
 - Completion of personal and group evaluation sheet
 - Average of the your peer grades
- 5 test pts extra credit for “Inventor of Calculus” for the whole group

Newton

Group members w/assignments:

- 1)
- 2)
- 3)
- 4)
- 5)

Opening remarks:

Presentation of evidence:

Cross-examination:

Rebuttal:

Questions:

Closing arguments:

PowerPoint:

Overall comments:

Leibniz

Group members w/assignments:

- 1)
- 2)
- 3)
- 4)
- 5)

Opening remarks:

Presentation of evidence:

Cross-examination:

Rebuttal:

Questions:

Closing arguments:

PowerPoint:

Overall comments:

Personal and Group Evaluation

Name _____

1) What was your area of responsibility?

2) Did you feel you were able to make a contribution to the project?

3) What grade would you give yourself for this project and why?

4) Evaluate each member of your group on their performance of their duties. Score from 1(lowest) – 10(highest). Justify your grade.

Group member _____

Area of responsibility _____

Score _____

Justification:

Group member _____

Area of responsibility _____

Score _____

Justification:

Group member _____

Area of responsibility _____

Score _____

Justification:

Group member _____

Area of responsibility _____

Score _____

Justification:

Group member _____

Area of responsibility _____

Score _____

Justification:

Group member _____

Area of responsibility _____

Score _____

Justification:

5) What are your thoughts on this project? Likes, Dislikes, suggestions, etc...