

2025-2026 School Elections

You know there are things you could do to help make Philemon Wright High School a better place for students. The only way to make these changes is to run in the 2025-2026 school elections. You are a very organized person, so you decide to start early.

You talk to your friends and determine a plan of action for your election campaign. One of your friends suggests you survey the student population. You want to understand the students' preferences, opinions and needs.

In other words, you want to gather information on one of the following topics: cultural preferences, food preferences (cafeteria), sports, extracurricular activities, course choices, academic standards, school outings, the code of conduct, etc.

There are many components, so you decide to **pick one theme and work in teams of 3 or 4:**

Your tasks:

1. Make a questionnaire consisting of 4 questions as follows:
 - a. Question 1 (offers 4 multiple choice answers): to collect qualitative data
 - b. Question 2 (offers 4 multiple choice answers): to collect discrete quantitative data
 - c. Question 3 (offers 4 multiple choice answers): to collect continuous quantitative data
 - d. Question 4 (open ended answer): to collect discrete quantitative data
2. Have your questionnaire approved by your math teacher on paper first – **By May 9**
3. Create a digital questionnaire and send its link to your math teacher – **By May 13**
4. Collect your data from a sample of the student population using **Microsoft forms**. – **May 15**
5. Organize the data you collected into tables (1 table per question)
6. Draw graphs: bar graph, pie chart, histogram, and Box and Whiskers plot, to represent your data. (Choose 1 appropriate graph for each question)
7. Interpret the information in the graphs or tables using the measures of central tendency and dispersion.
 - a. For qualitative data: mode
 - b. For quantitative data: mean, median, mode, range
6. Write a conclusion to summarize your analyzed findings. Include what your plan of action will be for next year's elections.

Your report must be submitted to your math teacher.

Organization Check List:

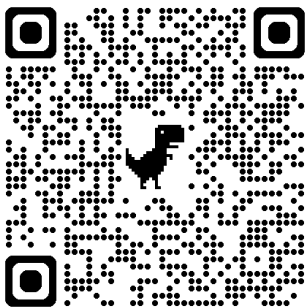
☐ Create your questionnaire on one of the following topics: cultural preferences, food (cafeteria), sports, extracurricular activities, course choices, academic standing, school outings, the code of conduct...etc. ☐ Authorized questions (____/ 4):	TEACHER SIGNATURE: Approval Due Date: May 9 Questionnaire Due Date: May 13 Data Collection on May 15
Report Contents: (about 7 pages) 1) Cover page 2) Introduction ↑ 3),4),5),6) - Survey question - Table of collected data - Graph - Measures of central tendency & dispersion - Interpretation of data 7) Conclusion Make sure to use complete sentences.	Final report <u>Due date: May 23</u>

Below are some links that you can use to help you:

[Create a Form:](#)

[Send a Form:](#)

[View Form results:](#)



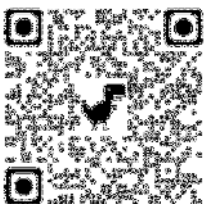
[Make a Bar graph:](#)

[Pie chart:](#)

[Histogram:](#)

[Box and Whiskers](#)

[Modify a table in Excel:](#)



Survey draft - due May 9

Names of group members:

_____ (team captain)

Project/ Survey title: _____

Question	Options	Member Name	Diagram
(Qualitative)			
(discreet quantitative)			
(continuous quantitative)			
(discrete quantitative)	(NO OPTIONS)		

Teacher signature: _____

Names in group: _____

Due date: **May 23, 2025**

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You will be evaluated as per the table below. Make sure to include all 7 pages:

- ❓ A title page
- ❓ An introduction
- ❓ An analysis page for each question (4 questions = 4 pages)
- ❓ A proposal letter for next year (your analysis and conclusion)
- ❓ This is the rubric for grading

	0 E D C B A						Total							
	Criteria 1	0	8	16	24	32	40							
	Criteria 2	0	8	16	24	32	40							
	Criteria 3 & 4	0	4	8	12	16	20							
Evaluation criteria	Observable indicators						0	E	D	C	B	A		
Evidence of understanding	- Respects all constraints in survey: 4 different types of questions, min. of 4 options for each multiple choice, and one open ended - Appropriate choice of tables and graphs. - Appropriate data analysis: Mode, median, mean, and range. - Provided analysis of data and conclusion													
Application of appropriate mathematical knowledge	- Correct representation in tables or graphs - Correct calculations of mode, median and mean. and range - Properly interprets all relevant measures of central tendency and dispersion													
Development of an appropriate solution	- Shows complete and organized work: Including cover page, introduction, conclusion, a separate page per survey question - Clearly shows the survey question on top of page - Neatly represents data in tables and graphs. - Shows all work for calculations.													