I got this data from one of your students cleaned it and did some summary on it by subject then gave various recommendations on how performance in each subject can be improved and will lead to best perfomance overally

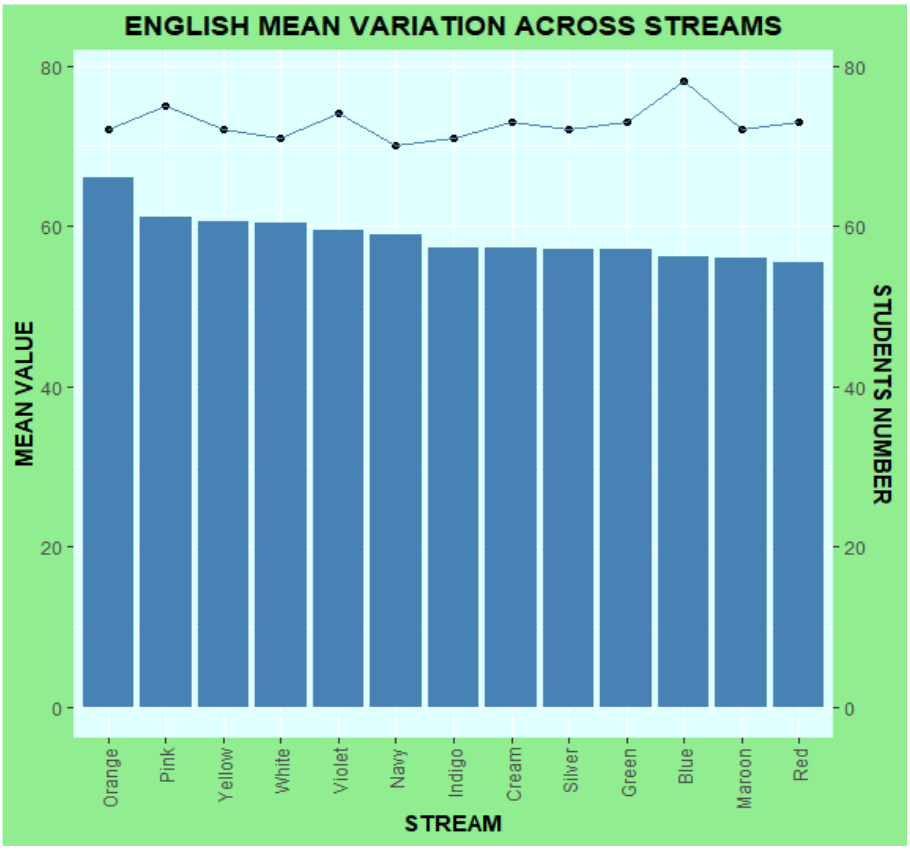
FORM 1 CYCLE 2
TERM 2 Result Analysis

Washingtone Oburu

English mean Score Arranged in Descending order and Visualization

POSITION	STREAM	STUDENTS	MEAN
1	Orange	72	66.1
2	Pink	75	61.1
3	Yellow	72	60.5
4	White	71	60.4
5	Violet	74	59.5
6	Navy	70	59
7	Indigo	71	57.3
8	Cream	73	57.2
9	Silver	72	57.1
10	Green	73	57
11	Blue	78	56.2
12	Maroon	72	55.9
13	Red	73	55.5

BARS REPRESENT MEAN VALUES AND LINE REPRESENT STUDENTS NUMBER



The mean scores of the streams range from **66.1** (highest) to **55.5** (lowest)

The stream with the highest mean score is **Orange** with a mean of **66.1**, while **Red** has the lowest mean score of **55.5**.

There is a noticeable variation in performance between the streams, with a difference of **10.6 points** between the highest and lowest mean scores.

The streams with the highest means (Orange, Pink, Yellow) could provide insights into effective teaching strategies in English or student characteristics that contribute to better performance

Recommendations

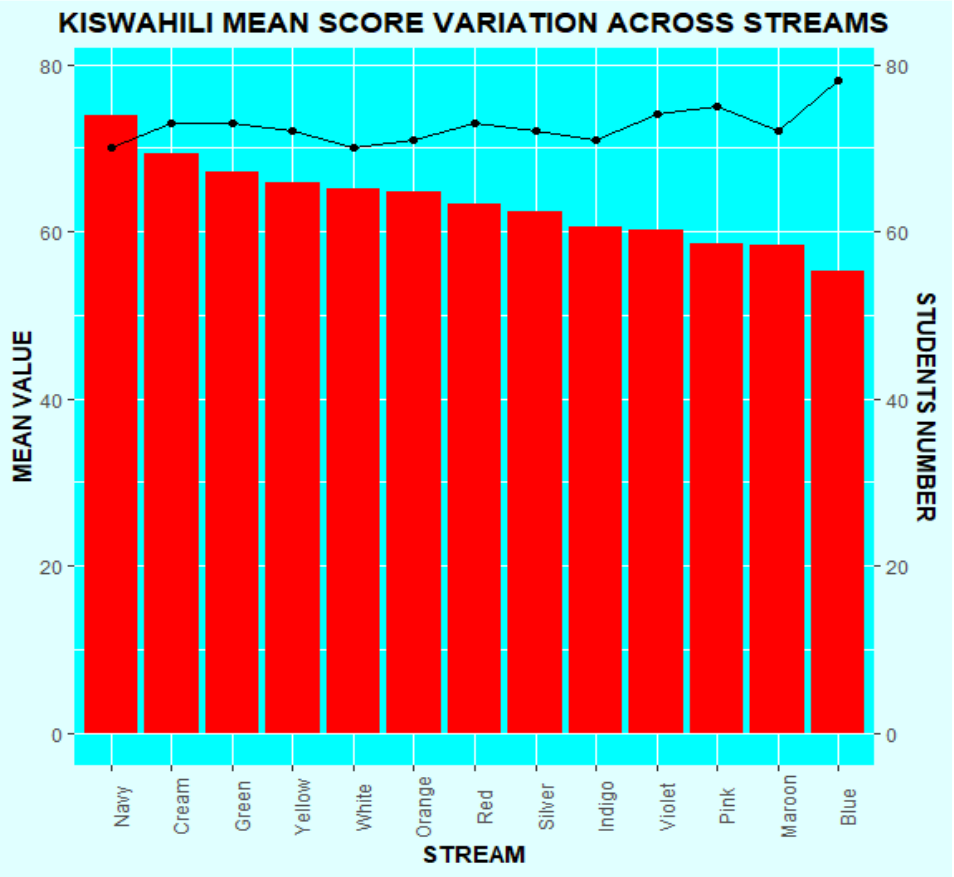
1. **Targeted Support**:
    - **Red and Maroon Streams**: Prioritize interventions and additional resources for the lowest-performing streams, particularly Red and Maroon, to elevate their academic outcomes.
    - **Blue Stream**: Despite having the largest student body, Blue Stream's mean score is relatively low, suggesting that this stream may benefit from smaller class sizes or more targeted academic support.
2. **Resource Allocation**:
    - **Orange Stream Strategies**: Investigate the teaching methods, resources, and practices in Orange Stream that contribute to its high performance and consider applying similar strategies across lower-performing streams.
3. **Class Size Consideration**:
    - **Impact of Large Streams**: Further explore the correlation between class sizes and performance, particularly for larger streams like Pink and Blue, to understand how student-to-teacher ratios may be impacting academic outcomes.

Conclusion

This analysis highlights the clear ranking of streams based on academic performance, with Orange Stream significantly leading and Red Stream trailing. The data suggests that targeted interventions are needed, particularly for lower-performing streams, to enhance overall academic performance. Additionally, further investigation into the success factors of top-performing streams could provide valuable insights for raising the standard across all streams.

Kiswahili mean Score Visualization

POSITION	STREAM	STUDENTS	MEAN
1	Navy	70	73.8
2	Cream	73	69.4
3	Green	73	67.1
4	Yellow	72	65.9
5	White	70	65.2
6	Orange	71	64.7
7	Red	73	63.3
8	Silver	72	62.4
9	Indigo	71	60.5
10	Violet	74	60.2
11	Pink	75	58.5
12	Maroon	72	58.3
13	Blue	78	55.2



Navy Stream ranks first with the highest average mean score of **73.8**. Despite having only **70 students**, this stream outperformed all others.

The **Blue Stream** has the lowest mean score of **55.2** despite having the highest number of students (**78**).

Observations

There is a **18.6-point difference** between the highest and lowest mean scores, indicating significant variability in performance across streams.

Streams with fewer students (e.g., **Navy Stream**) tend to have higher mean scores, which could suggest more focused attention per student or other favorable conditions.

Blue Stream, with the largest student body, shows the lowest performance, possibly indicating that larger class sizes might correlate with lower average performance.

Recommendations

Further Investigation: Investigate the factors contributing to the high performance in **Navy Stream** and low performance in **Blue Stream** to identify best practices and areas needing improvement.

Support Interventions: Consider implementing targeted academic interventions or resource allocations to support underperforming streams.

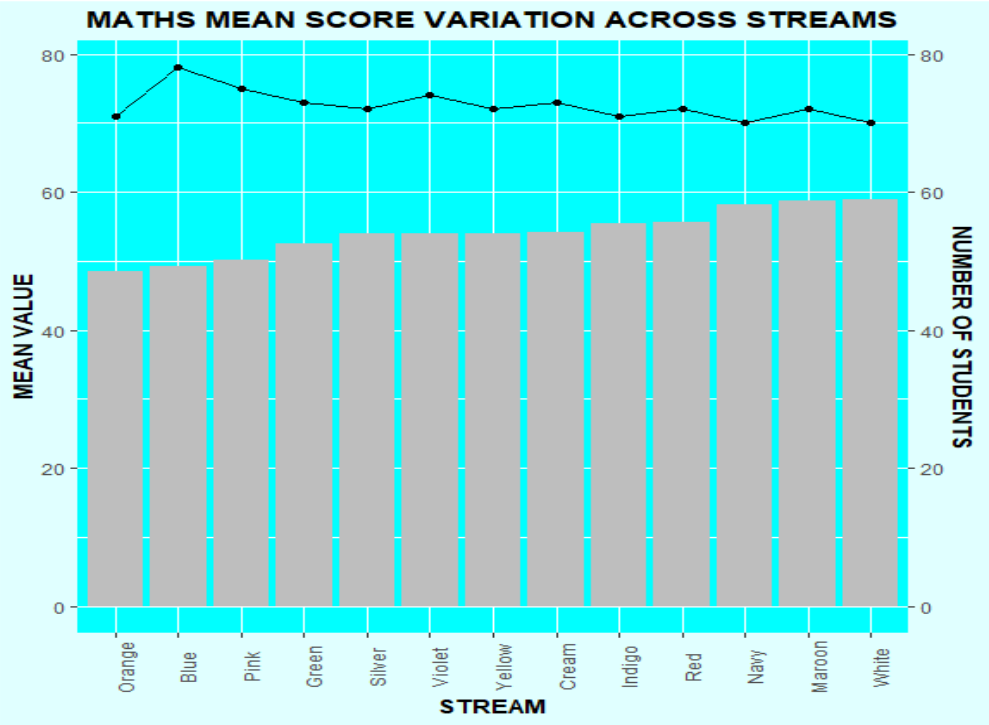
Class Size Consideration: Evaluate the impact of class size on student performance, particularly in streams like **Blue**, to ensure optimal student-to-teacher ratios.

Conclusion

Navy, **Cream**, and **Green** streams demonstrate strong academic performance, while **Blue**, **Maroon**, and **Pink** streams may need targeted interventions to enhance their results. Further investigation into the teaching methods and student support systems in high-performing streams could provide valuable insights for overall improvement.

MATHEMATICS SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	White	70	58.9
2	Maroon	72	58.7
3	Navy	70	58.1
4	Red	72	55.7
5	Indigo	71	55.5
6	Cream	73	54.1
7	Silver	72	54
8	Violet	74	54
9	Yellow	72	54
10	Green	73	52.5
11	Pink	75	50.1
12	Blue	78	49.3
13	Orange	71	48.5



White Stream is the top performer with a mean score of **58.9**, having **70 students**.

Orange Stream ranks last with the lowest mean score of **48.5** and **71 students**

Observations

- White Stream, with the highest mean score of 58.9, outperforms the other streams by a small margin, indicating relatively close competition among the top streams.
- Orange Stream, with the lowest mean score of 48.5, shows a noticeable gap in performance compared to the top streams.
- Larger streams, such as Blue and Pink, with the most students, tend to perform lower, suggesting that student-to-teacher ratio or other factors might be influencing performance.

Recommendations

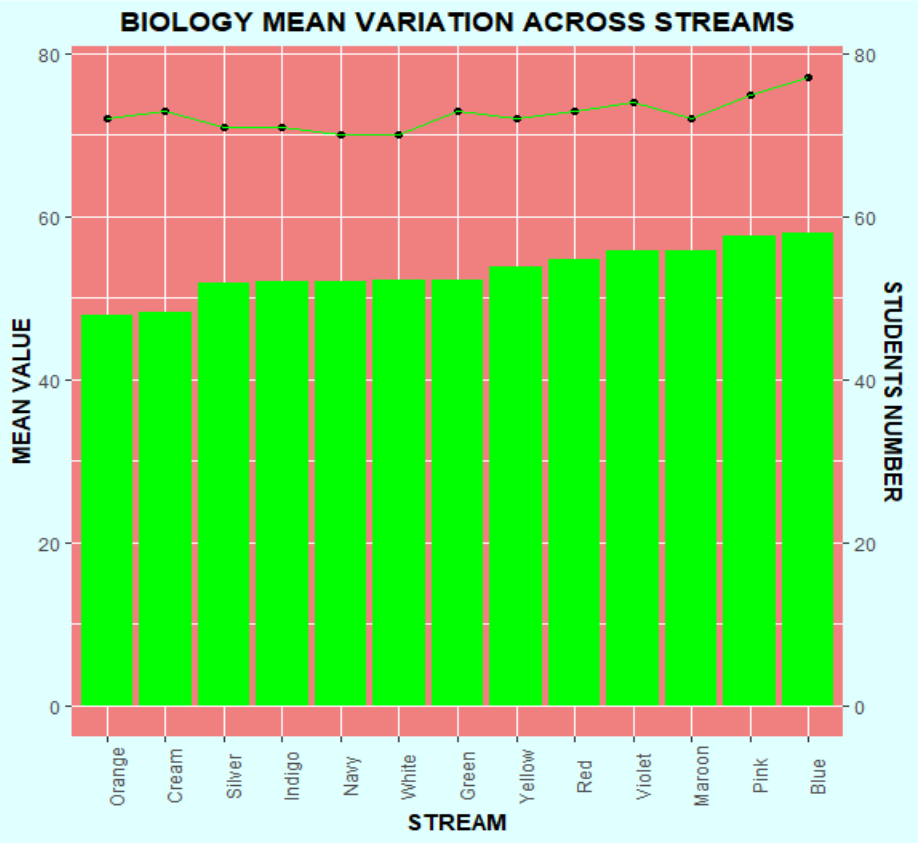
- **Targeted Support**: Streams with lower performance, particularly **Orange** and **Blue**, could benefit from additional academic support and resources.
- **Further Analysis**: Investigate the practices and resources in **White**, **Maroon**, and **Navy** streams to identify strategies that can be applied to other streams.
- **Class Size Consideration**: Explore the impact of class sizes on performance, especially in streams like **Blue** and **Pink**, which have larger student populations but lower mean scores.

Conclusion

- The analysis highlights a clear ranking of streams based on academic performance, with **White Stream** leading and **Orange Stream** lagging behind. The data suggests that some streams may benefit from targeted interventions to improve their academic outcomes, particularly those with lower mean scores. Additionally, further investigation into the factors contributing to the success of the top-performing streams could provide insights for enhancing overall performance

BIOLOGY SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Blue	77	58.04
2	Pink	75	57.53
3	Maroon	72	55.85
4	Violet	74	55.76
5	Red	73	54.66
6	Yellow	72	53.89
7	Green	73	52.25
8	White	70	52.17
9	Navy	70	52.06
10	Indigo	71	51.99
11	Silver	71	51.86
12	Cream	73	48.29
13	Orange	72	47.97



Blue Stream leads with the highest mean score of **58.04** and has **77 students**.

Orange Stream ranks last with the lowest mean score of **47.97** and **72 students**

Observations

- The **Blue Stream** leads the rankings with a mean score of **58.04**, suggesting effective teaching methods or strong student engagement in biology.
- The performance gap between the top stream (**Blue**) and the bottom stream (**Orange**) is **10.07 points**, indicating significant variability in biology performance across the streams.
- Streams with larger student populations, like **Blue** and **Pink**, perform relatively well, whereas streams with fewer students, like **Orange**, tend to have lower mean scores.

Recommendations

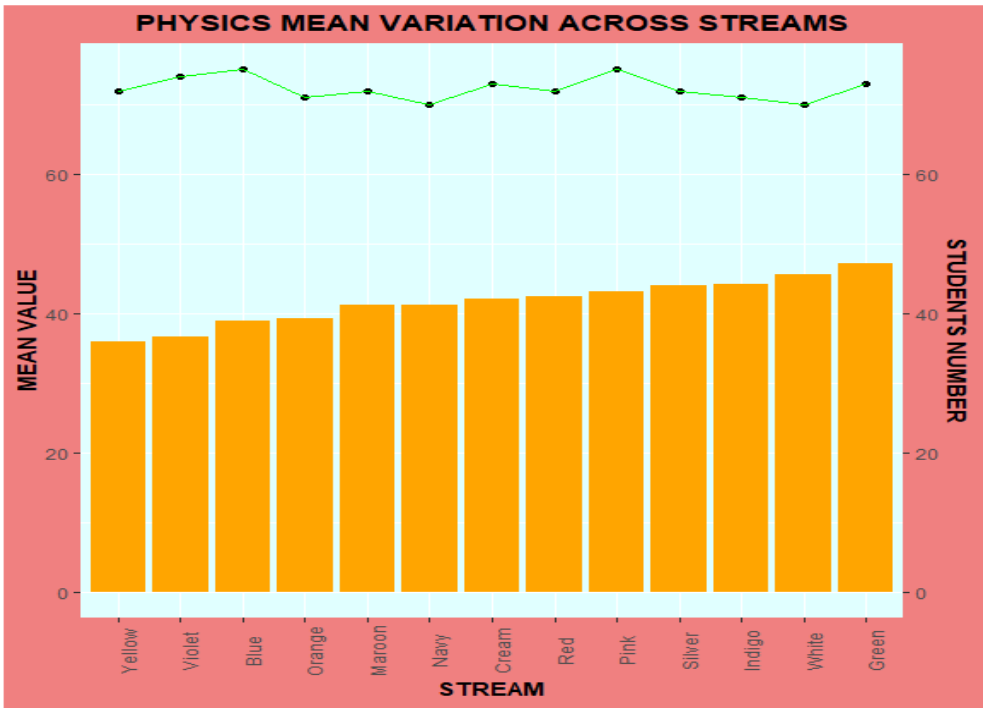
- **Focus on Improvement**: Consider implementing targeted academic support and resources for lower-performing streams like **Cream** and **Orange**.
- **Best Practices Sharing**: Investigate the teaching methods and strategies used in **Blue** and **Pink** streams to share best practices with other streams.
- **Class Size Analysis**: Explore the relationship between class size and performance to optimize student-to-teacher ratios for better academic outcomes.

Conclusion

This analysis shows that the **Blue Stream** has the highest biology performance, while **Orange Stream** has the lowest. The findings suggest that there may be a correlation between class size and performance, though this would require further investigation. The data also highlights the need for targeted interventions in lower-performing streams to improve biology outcomes.

PHYSICS SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Green	73	47.15
2	White	70	45.56
3	Indigo	71	44.25
4	Silver	72	44.06
5	Pink	75	43.17
6	Red	72	42.39
7	Cream	73	42.14
8	Navy	70	41.16
9	Maroon	72	41.14
10	Orange	71	39.31
11	Blue	75	38.99
12	Violet	74	36.62
13	Yellow	72	36



Green Stream ranks highest with a mean score of 47.15 and 73 students.

Violet Stream and **Yellow Stream** have the lowest mean scores of **36.62** and **36.00**, respectively.

Observations

- The **Green Stream** leads the ranking with a mean score of **47.15**, demonstrating the best overall performance in physics.
- **Yellow Stream** has the lowest mean score of **36.00**, showing a significant gap of **11.15 points** between the top and bottom streams.
- The data suggests that performance in physics is fairly spread out, with a gradual decline from the top performers to the lower tiers.

Recommendations

- **Support for Lower Performers**: Streams like **Yellow**, **Violet**, and **Blue** may benefit from additional academic support and targeted interventions to improve their understanding and performance in physics.
- **Study Best Practices**: Investigate the methods and strategies used by the top-performing streams, particularly **Green**, to identify practices that can be shared with other streams to boost overall performance.
- **Continuous Monitoring**: Regularly monitor the performance of all streams to ensure that any decline in performance is identified early and addressed promptly.

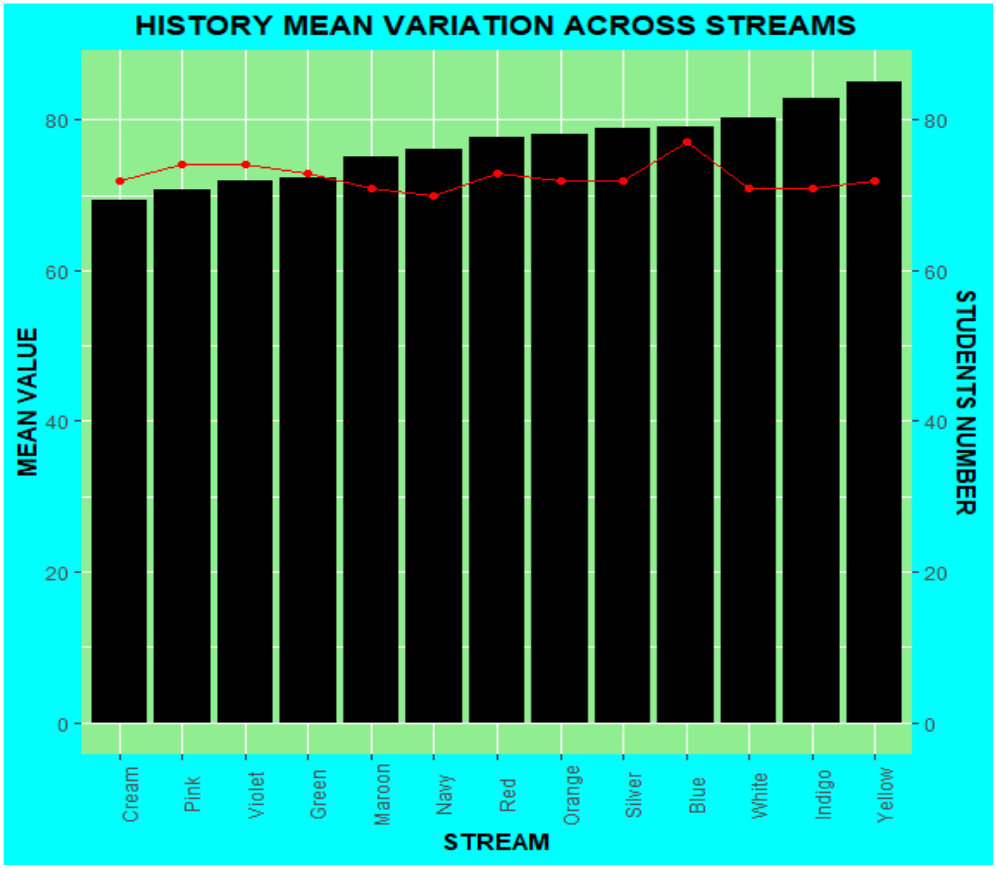
Conclusion

The analysis shows that **Green Stream** is the top performer in physics, while **Yellow Stream** has the most room for improvement. The performance gap indicates varying levels of understanding and achievement in physics across the streams

POSITION	STREAM	STUDENTS	MEAN
1	Violet	74	60.88
2	Silver	72	59.53
3	Navy	70	57.79
4	White	70	57.3
5	Cream	73	55.37
6	Yellow	72	55.1
7	Maroon	72	54.51
8	Orange	71	53.55
9	Red	73	52.21
10	Pink	75	51.41
11	Green	73	50.47
12	Indigo	71	47.97
13	Blue	78	43.44

HISTORY SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Yellow	72	84.94
2	Indigo	71	82.93
3	White	71	80.31
4	Blue	77	79.12
5	Silver	72	78.81
6	Orange	72	78.11
7	Red	73	77.62
8	Navy	70	76.07
9	Maroon	71	75.01
10	Green	73	72.27
11	Violet	74	71.89
12	Pink	74	70.66
13	Cream	72	69.39



Yellow Stream leads with an impressive mean score of 84.94 and 72 students

Cream Stream has the lowest mean score of **69.39**, despite having **72 students**.

Observations

- The **Yellow Stream** leads with a mean score of **84.94**, indicating exceptional performance in history.
- **Cream Stream** shows the lowest performance with a mean score of **69.39**, highlighting a significant performance gap of **15.55 points** compared to the top stream.

- Mid-tier streams such as **Blue**, **Silver**, and **Orange** have mean scores in the **77 to 79** range, indicating strong overall performance.

Recommendations

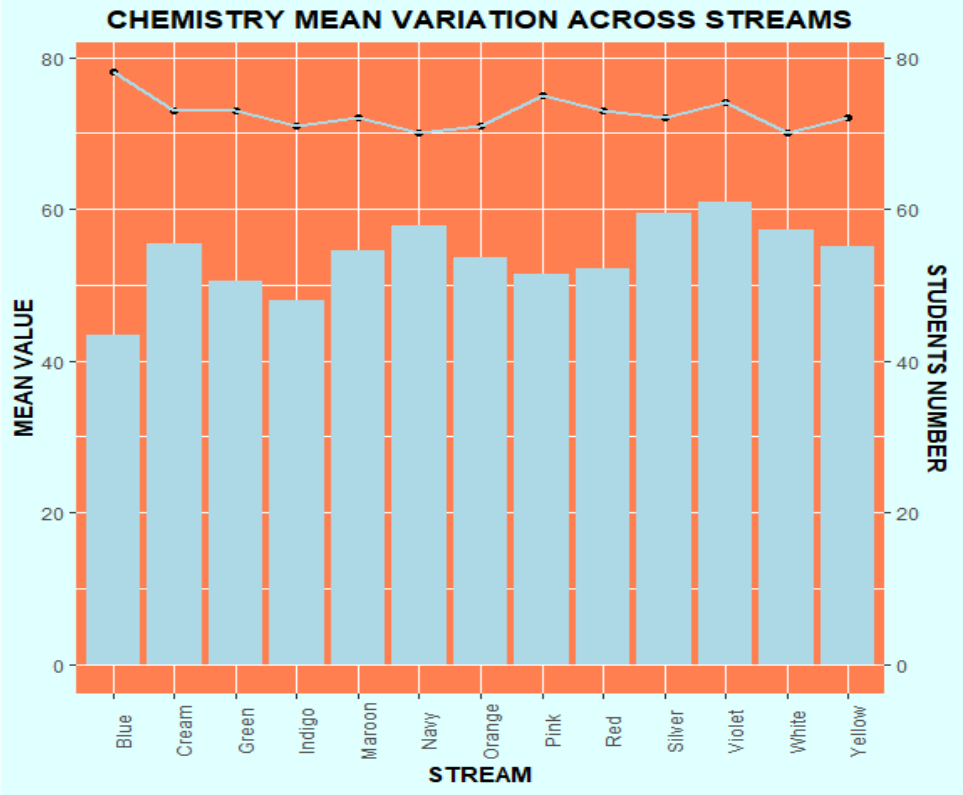
- **Enhanced Support for Lower Performers**: Streams with lower performance, particularly **Cream** and **Pink**, should receive additional support and resources to improve their history scores.
- **Best Practices Analysis**: Review the successful strategies and teaching methods used in **Yellow** and **Indigo** streams to replicate effective practices in other streams.
- **Ongoing Monitoring**: Continuously track performance across all streams to ensure that students have the necessary support and interventions to enhance their history learning outcomes.

Conclusion

The analysis highlights that **Yellow Stream** excels in history, while **Cream Stream** lags behind. The performance distribution shows a wide range of scores, with some streams achieving notably higher mean scores than others.

CHEMISTRY SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Violet	74	60.88
2	Silver	72	59.53
3	Navy	70	57.79
4	White	70	57.3
5	Cream	73	55.37
6	Yellow	72	55.1
7	Maroon	72	54.51
8	Orange	71	53.55
9	Red	73	52.21
10	Pink	75	51.41
11	Green	73	50.47
12	Indigo	71	47.97
13	Blue	78	43.44



Violet Stream leads with an impressive mean score of **60.88** and **74 students**.

Indigo Stream and **Blue Stream** are the lowest performers with mean scores of **47.97** and **43.44**, respectively, with **Blue Stream** having the largest student population (**78 students**)

Observations

- The **Violet Stream** leads with a mean score of **60.88**, indicating strong performance in chemistry.
- **Blue Stream** has the lowest mean score of **43.44**, with a significant performance gap of **17.44 points** from the top stream.

- Mid-tier streams such as **White**, **Cream**, and **Yellow** perform steadily, with scores just above and below the mid-50s.

Recommendations

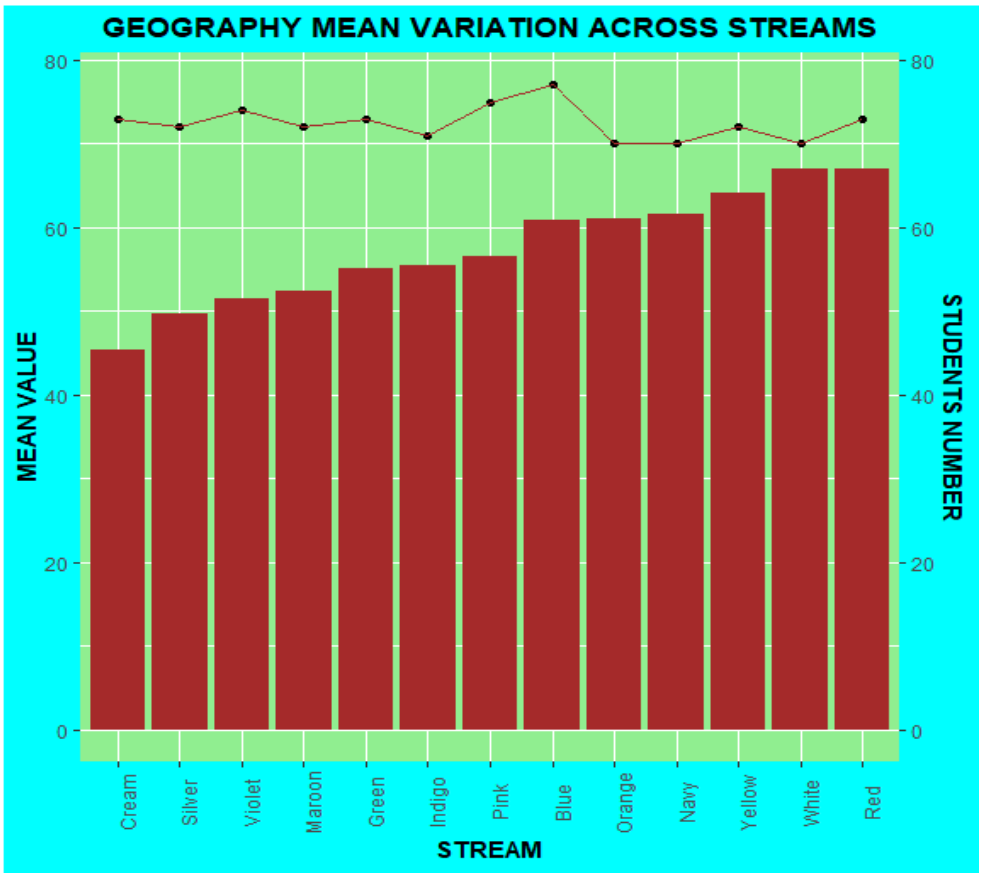
- **Targeted Interventions**: Streams with lower performance, particularly **Blue** and **Indigo**, should receive additional support, such as tutoring or focused study sessions, to improve their chemistry outcomes.
- **Sharing Best Practices**: Investigate the teaching methods used in **Violet** and **Silver** streams to identify successful strategies that could be applied to lower-performing streams.
- **Performance Monitoring**: Continuously monitor performance across streams to ensure that all students have the resources and support needed to succeed in chemistry.

Conclusion

This analysis highlights that **Violet Stream** performs exceptionally well in chemistry, while **Blue Stream** struggles the most. The wide range in mean scores suggests varying levels of chemistry proficiency across the streams.

GEOGRAPHY SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Red	73	66.93
2	White	70	66.91
3	Yellow	72	64.06
4	Navy	70	61.59
5	Orange	70	61.06
6	Blue	77	60.92
7	Pink	75	56.57
8	Indigo	71	55.44
9	Green	73	55.07
10	Maroon	72	52.4
11	Violet	74	51.54
12	Silver	72	49.69
13	Cream	73	45.27



Red Stream leads with a mean score of **66.93** and **73 students**.

Cream Stream has the lowest mean score of **45.27**, despite having **73 students**.

Observations

- The **Red Stream** excels in geography with a mean score of **66.93**, indicating the highest level of achievement.
- **Cream Stream** ranks lowest with a mean score of **45.27**, showing a significant performance gap of **21.66 points** from the top stream.

- Mid-tier streams such as **Navy**, **Orange**, and **Blue** display solid performance, with mean scores ranging from **60.92** to **61.59**.

Recommendations

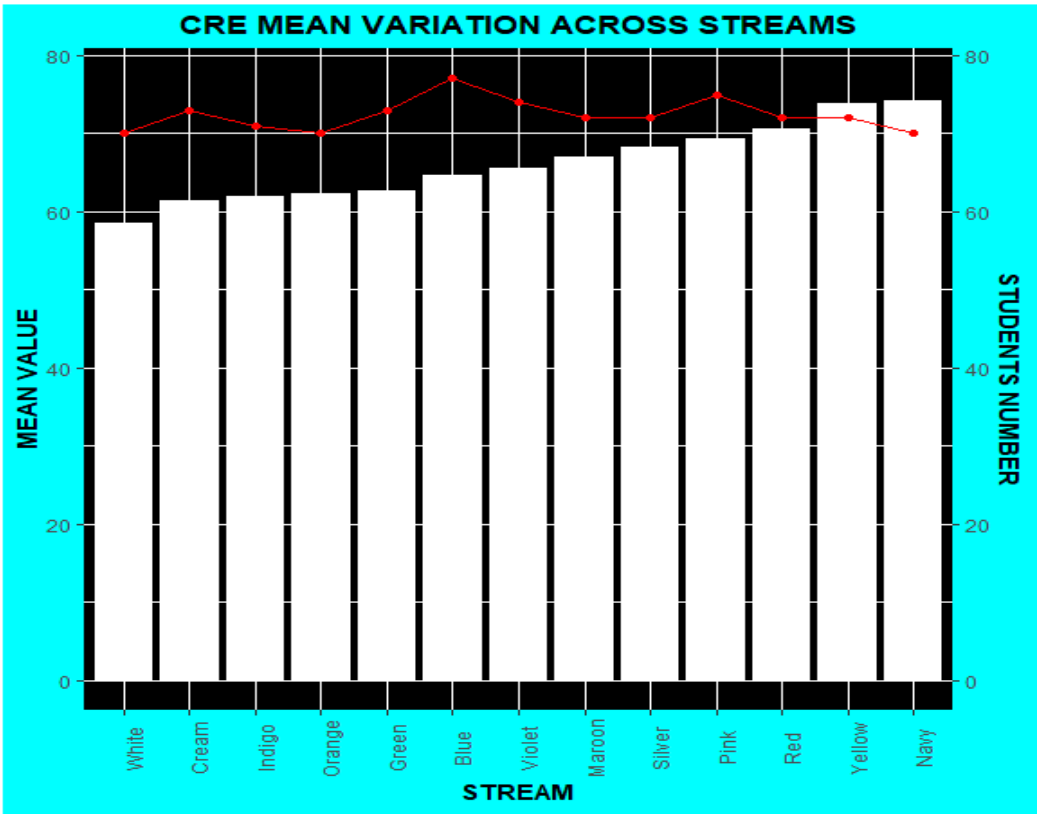
- **Support for Lower Performers**: Provide additional academic support and resources to streams with lower performance, especially **Cream** and **Silver**, to improve their geography outcomes.
- **Leverage Best Practices**: Investigate the successful strategies used in **Red**, **White**, and **Yellow** streams to identify effective practices that could be applied to other streams.
- **Regular Monitoring**: Continuously monitor performance and implement interventions to address any declines and support students across all streams.

Conclusion

The analysis highlights that **Red Stream** performs the best in geography, while **Cream Stream** is the lowest performer. The wide range in mean scores suggests varying levels of proficiency and understanding in geography across different streams.

CRE SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Navy	70	74.23
2	Yellow	72	73.88
3	Red	72	70.62
4	Pink	75	69.35
5	Silver	72	68.19
6	Maroon	72	67.03
7	Violet	74	65.61
8	Blue	77	64.69
9	Green	73	62.7
10	Orange	70	62.37
11	Indigo	71	61.92
12	Cream	73	61.41
13	White	70	58.53



Navy Stream leads with a mean score of **74.23** and **70 students**

White Stream has the lowest mean score of **58.53**, despite having **70 students**

Observations

- The **Navy Stream** excels in CRE with a mean score of **74.23**, indicating the highest level of achievement in this subject.
- **White Stream** ranks lowest with a mean score of **58.53**, showing a performance gap of **15.7 points** from the top stream.
- Mid-tier streams such as **Pink**, **Silver**, and **Maroon** demonstrate solid performance, with mean scores ranging from **67.03** to **69.35**.

Recommendations

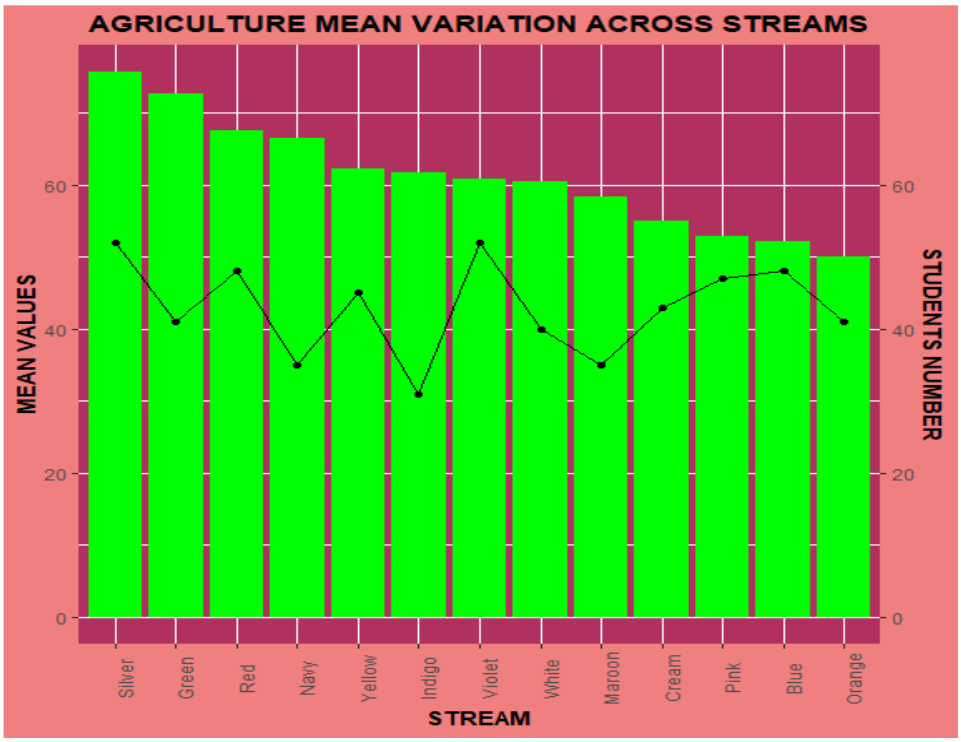
- **Enhanced Support**: Provide additional academic support to lower-performing streams, particularly **White** and **Cream**, to improve their CRE outcomes.
- **Best Practices**: Examine the effective teaching strategies and methods used in the **Navy** and **Yellow** streams to identify practices that could be beneficial for other streams.
- **Performance Monitoring**: Regularly monitor CRE performance to ensure all students receive the necessary resources and support to succeed in the subject.

Conclusion

The analysis indicates that **Navy Stream** performs the best in CRE, while **White Stream** is the lowest performer. The range of mean scores reflects varying levels of proficiency and understanding in CRE across the different streams.

AGRICULTURE SUMMARY

POSITON	STREAM	STUDENTS	MEAN
1	Silver	52	75.62
2	Green	41	72.63
3	Red	48	67.48
4	Navy	35	66.43
5	Yellow	45	62.24
6	Indigo	31	61.77
7	Violet	52	60.92
8	White	40	60.45
9	Maroon	35	58.4
10	Cream	43	54.98
11	Pink	47	52.94
12	Blue	48	52.21
13	Orange	41	49.95



Silver Stream leads with a mean score of **75.62** and **52 students**.

Orange Stream has the lowest mean score of **49.95** with **41 students**.

Observations

- **Silver Stream** leads with a mean score of **75.62**, indicating the highest level of achievement in agriculture.
- **Orange Stream** has the lowest mean score of **49.95**, showing a performance gap of **25.67 points** from the top stream.
- Mid-tier streams such as **Navy**, **Yellow**, and **Indigo** display solid performance, with mean scores ranging from **61.77** to **66.43**.

Recommendations

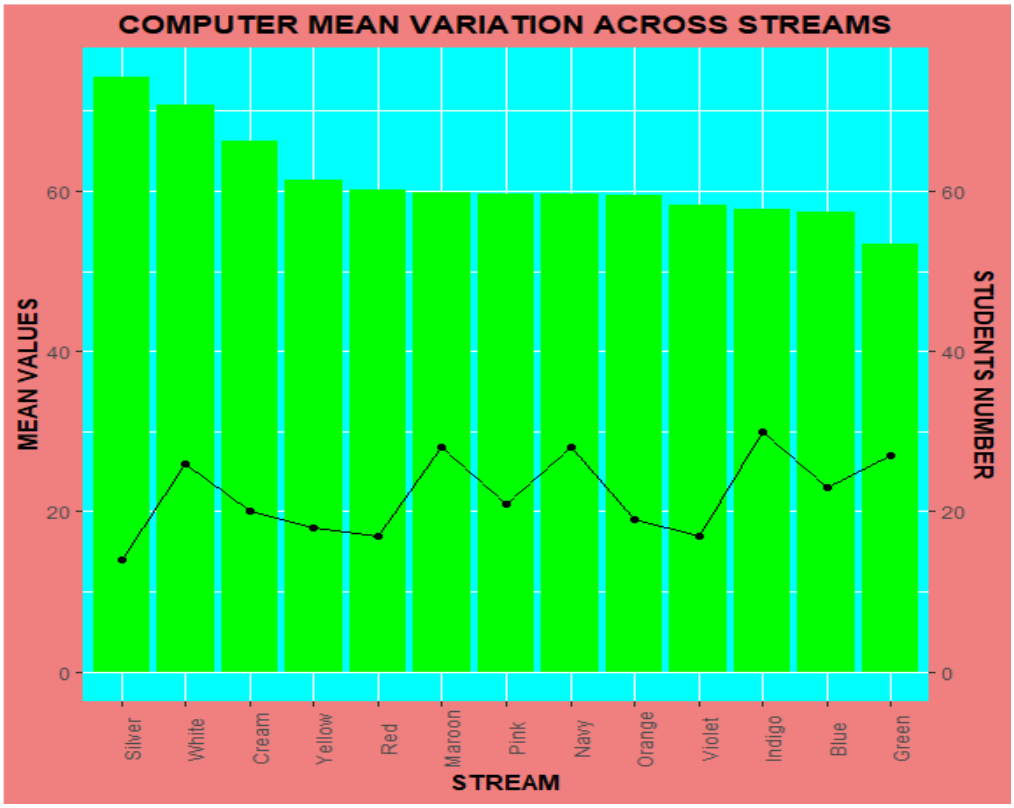
- **Targeted Interventions**: Provide additional academic support and resources to streams with lower performance, particularly **Orange** and **Cream**, to help improve their agriculture scores.
- **Successful Practices**: Review the strategies and teaching methods used in **Silver** and **Green** streams to identify successful practices that could be implemented in other streams.
- **Continuous Monitoring**: Regularly assess performance across all streams to ensure that any issues are addressed promptly and students receive the necessary support

Conclusion

The analysis indicates that **Silver Stream** performs exceptionally well in agriculture, while **Orange Stream** has the most room for improvement. The wide range in mean scores reflects varying levels of proficiency and understanding in agriculture across different streams.

COMPUTER SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Silver	14	74.14
2	White	26	70.69
3	Cream	20	66.3
4	Yellow	18	61.44
5	Red	17	60.24
6	Maroon	28	59.86
7	Pink	21	59.71
8	Navy	28	59.57
9	Orange	19	59.42
10	Violet	17	58.24
11	Indigo	30	57.77
12	Blue	23	57.39
13	Green	27	53.41



Silver Stream leads with a mean score of **74.14** and **14 students**.

Green Stream has the lowest mean score of **53.41** with **27 students**.

Observations

- **Silver Stream** leads in Computer Studies with a high mean score of **74.14**, showcasing strong performance despite having a smaller group of **14 students**.
- **White Stream** and **Cream Stream** also perform well, with mean scores of **70.69** and **66.3**, respectively.
- **Green Stream** ranks lowest with a mean score of **53.41**, indicating a need for improvement.

Recommendations

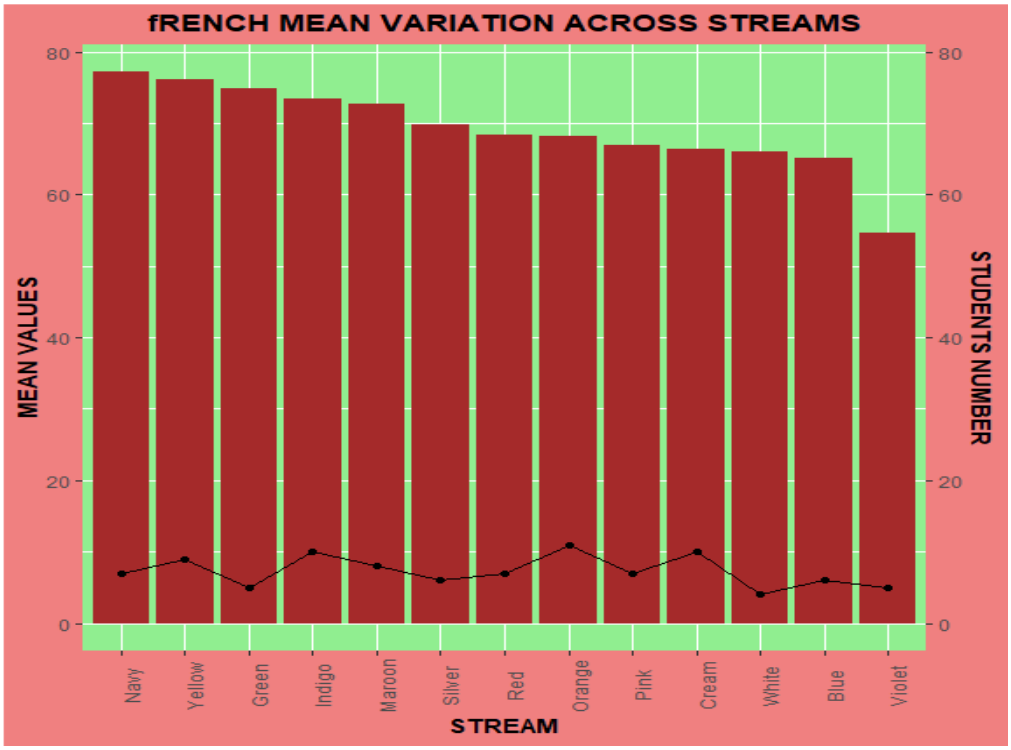
- **Enhanced Support**: Focus on providing targeted academic support to lower-performing streams, particularly **Green**, **Blue**, and **Indigo**, to help improve their Computer Studies outcomes.
- **Leveraging Best Practices**: Analyze the strategies employed by the **Silver**, **White**, and **Cream** streams to identify successful teaching methods that can be applied across other streams.
- **Monitoring and Intervention**: Regularly monitor student performance in Computer Studies and implement timely interventions to address any emerging challenges.

Conclusion

The analysis reveals that **Silver Stream** excels in Computer Studies, while **Green Stream** shows the greatest need for support. The range of mean scores from **53.41** to **74.14** reflects varying levels of understanding and proficiency in Computer Studies across the streams.

FRENCH SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	Navy	7	77.14
2	Yellow	9	76.22
3	Green	5	74.8
4	Indigo	10	73.4
5	Maroon	8	72.75
6	Silver	6	69.83
7	Red	7	68.29
8	Orange	11	68.18
9	Pink	7	67
10	Cream	10	66.4
11	White	4	66
12	Blue	6	65.17
13	Violet	5	54.6



Navy Stream leads

with a mean score of **77.14** and **7 students**.

Violet Stream has the lowest mean score of **54.6** with **5 students**

Observations

- **Navy Stream** stands out with the highest mean score of **77.14**, showcasing strong performance in French, despite having only **7 students**.
- **Yellow Stream** and **Green Stream** also perform well, with mean scores of **76.22** and **74.8** respectively.
- **Violet Stream** has the lowest performance, with a mean score of **54.6**.

Recommendations

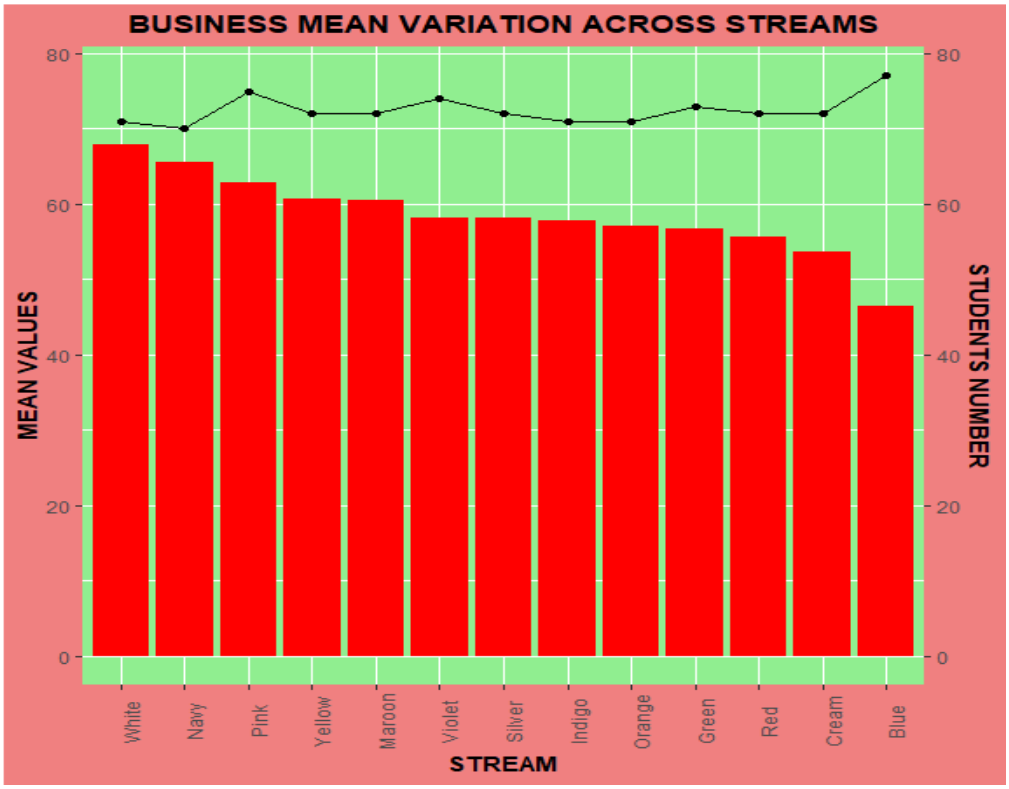
- **Targeted Support**: Provide additional resources and support to lower-performing streams, particularly **Violet**, **Blue**, and **White**, to enhance their French performance.
- **Best Practice Sharing**: Examine the teaching methods and strategies employed by the top-performing streams, particularly **Navy** and **Yellow**, and share these practices across other streams.
- **Continuous Assessment**: Regularly monitor and assess French performance across all streams to ensure consistent progress and timely interventions when needed.

Conclusion

The analysis highlights that **Navy Stream** excels in French, while **Violet Stream** shows the most room for improvement. The range of mean scores from **54.6** to **77.14** suggests varying levels of proficiency in French across the streams.

BUSINESS SUMMARY

POSITION	STREAM	STUDENTS	MEAN
1	White	71	67.85
2	Navy	70	65.51
3	Pink	75	62.87
4	Yellow	72	60.75
5	Maroon	72	60.43
6	Violet	74	58.24
7	Silver	72	58.17
8	Indigo	71	57.77
9	Orange	71	57.03
10	Green	73	56.68
11	Red	72	55.71
12	Cream	72	53.65
13	Blue	77	46.36



White Stream leads with a mean score of **67.85** and **71 students**.

Blue Stream has the lowest mean score of **46.36** with **77 students**.

Observations

- **White Stream** excels in Business Studies, leading with the highest mean score of **67.85**.
- **Navy Stream** and **Pink Stream** also demonstrate strong performance, with mean scores of **65.51** and **62.87**, respectively.
- **Blue Stream** shows the greatest need for improvement, with the lowest mean score of **46.36**.

Recommendations

- **Support for Lower-Performing Streams**: Focus on providing additional academic support to **Blue**, **Cream**, and **Red** streams to improve their Business Studies outcomes.
- **Leveraging Success Strategies**: Investigate the strategies employed by the top-performing streams, particularly **White** and **Navy**, to identify best practices that can be implemented in other streams.
- **Regular Monitoring**: Continue to assess and monitor performance in Business Studies across all streams to ensure consistent progress and to identify areas for timely intervention.

Conclusion

The analysis reveals that **White Stream** has the strongest performance in Business Studies, while **Blue Stream** ranks lowest. The range of mean scores from **46.36** to **67.85** highlights significant differences in Business Studies proficiency across the streams.

TOPP 5 STUDENTS IN EACH SUBJECT

1.ENGLISH

	ADMISION_NUMBER	NAME	STREAM	ENGLISH
1	14542	Elphas Omondi	Orange	90
2	14738	Chris Hillary Ogweno	Silver	88
3	14731	Shem Wayne	Pink	88
4	14988	Make Edrian Marube	Orange	86
5	14700	Fidelis Ochieng Obade	Red	85

Stream Analysis:

- The **Orange stream** is notably strong, with two students in the top five, reflecting the stream's overall excellence in English.
- The **Silver**, **Pink**, and **Red streams** also contributed top students, indicating a broad distribution of high English performance across different streams

Implications:

- The top scores indicate a high level of understanding and capability in English among these students, particularly in the Orange stream.
- The performance across various streams suggests that English is a well-taught subject, with effective teaching methods being implemented across the school.

Recommendations:

- The teaching strategies used in the **Orange stream** could be analyzed and potentially replicated in other streams to boost overall English performance.
- Continued focus on student engagement and targeted support could help maintain and improve these high standards across all streams.

2.KISWAHILI

	ADMISION_NUMBER	NAME	STREAM	KISWAHILI
1	15170	Oduor Wahlen Orwal	Navy	100
2	14817	Brighton Oduor Ouma	Blue	95
3	15245	Erick Omondi Ojung'a	Navy	94
4	15291	Lazan Barry	Indigo	94
5	15187	Nsato Ajax Range	Cream	93

Stream Analysis:

- The **Navy stream** stands out with two students in the top five, emphasizing the stream's strong performance in Kiswahili.
- Students from **Blue, Indigo,** and **Cream streams** also showed impressive results, each contributing a top performer to this list.

Implications:

- The scores indicate a high level of proficiency in Kiswahili among these top students, with the Navy stream demonstrating particularly strong capabilities.
- The consistent performance across multiple streams suggests effective teaching strategies and student engagement in Kiswahili lessons.

Recommendations:

- Navy stream could be used as a model for improving Kiswahili performance in other streams.
- Further analysis could be done to understand the teaching methods and study practices contributing to these high scores, which could then be implemented across all streams to elevate overall performance.

3.MATHEMATICS

	ADMISION_NUMBER	NAME	STREAM	MATHS
1	14887	Ochieng Chrislinsky Otieno	Cream	93
2	15353	Steve Warren Owino	Silver	93
3	14722	Cyle Dwero Odhiambo	Cream	92
4	15371	Odhiambo Winstone Asumo	Green	91
5	15075	Joshua Reynard Atela	Red	91

Stream Analysis:

- The **Cream stream** stands out with two students in the top three, indicating a particularly strong performance in Mathematics within this stream.
- The **Silver, Green, and Red streams** also produced top scorers, reflecting a wide distribution of high performance across different streams.

Implications:

- The high scores achieved by students in the Cream stream suggest effective teaching methods and strong student engagement in Mathematics within this stream.
- The presence of top scorers across multiple streams indicates that Mathematics is a well-taught subject throughout the school, with students across various streams demonstrating strong mathematical skills.

Recommendations:

- The successful teaching approaches used in the **Cream stream** could be analyzed and potentially adapted by other streams to further enhance Mathematics performance across the board.
- Continuous support and encouragement for students, especially in the identified strong streams, will help maintain high standards and could lead to further improvement in overall Mathematics performance.

4.BIOLOGY

ADMISION_NUMBER		NAME	STREAM	BIOLOGY
1	15250	Oginga Moses Odhiambo	Pink	86
2	14671	Ouya Brightone Odhiambo	Indigo	84
3	15030	Apiyo Adrian Odhiambo	Red	84
4	14652	Onyango Justus Ochuka	Maroon	83
5	15022	Simon Odhiambo	Green	83

Stream Analysis:

- **Pink Stream:** Achieves the highest average score of 86, indicating exceptional performance in Biology.
- **Indigo and Red Streams:** Both have a solid average score of 84, demonstrating strong performance but slightly behind the Pink Stream.
- **Maroon and Green Streams:** Both have the lowest average score of 83, suggesting areas needing improvement.

Implications:

- **Pink Stream:** The high average score suggests effective teaching strategies and possibly better student engagement in Biology.
- **Maroon and Green Streams:** The lower average scores highlight potential gaps in teaching or resource allocation that need to be addressed.

Recommendations:

- **Improve Lower-Performing Streams:** Provide additional resources and review teaching methods for the Maroon and Green Streams to enhance their Biology scores.
- **Share Best Practices:** Analyze and i

5.PHYSICS

	ADMISION_NUMBER	NAME	STREAM	PHYSICS
1	14722	Cyle Dwero Odhiambo	Cream	84
2	15225	Finley Ian Omondi	Red	81
3	14887	Ochieng Chrislinsky Otieno	Cream	80
4	15202	Biron Onyango Otieno	Cream	79
5	15361	Churchil Brown Ochieng	Pink	79

Stream Analysis:

- **Cream Stream:** Dominates with three students and an average score of 81, showing strong performance in Physics within this stream.
- **Red Stream:** Has one student with a score of 81, reflecting a good performance but with limited representation.
- **Pink Stream:** Shows a single student with a score of 79, indicating a lower performance compared to the Cream and Red Streams.

Implications:

- **Cream Stream:** The high average score of 81 suggests effective teaching methods and possibly strong student engagement in Physics.
- **Red Stream:** Performance is solid, but with only one student, it is difficult to gauge overall stream effectiveness.
- **Pink Stream:** The lower score of 79 indicates potential areas for improvement or additional support needed.

Recommendations:

- **Enhance Support for Lower-Scoring Streams:** Review and improve teaching strategies and resource allocation for the Pink Stream to boost Physics performance.
- **Leverage Successful Strategies:** Examine effective practices from the Cream Stream and consider applying them to other streams to enhance overall performance.

- **Monitor and Adjust:** Continuously track performance in Physics and adjust support measures to address any emerging challenges and ensure consistent improvement.
- **Ongoing Monitoring:** Regularly assess student performance and adjust support measures to ensure consistent improvement in Biology.

6.CHEMISTRY

ADMISION_NUMBER		NAME	STREAM	CHEMISTRY
1	14722	Cyle Dwero Odhiambo	Cream	95
2	15373	Young Byron Juma	Yellow	93
3	15245	Erick Omondi Ojung'a	Navy	85
4	14975	Otieno Jeff Odero	Violet	85
5	14716	Ochieng Elly Otieno	Orange	85

Stream Analysis:

- **Cream Stream:** Achieves the highest average score of 95, indicating exceptional performance in Chemistry.
- **Yellow Stream:** Has a strong score of 93, demonstrating high performance but slightly below the Cream Stream.
- **Navy, Violet, and Orange Streams:** All have scores of 85, reflecting consistent performance but lower than the top two streams.

Implications:

- **Cream Stream:** The high average score of 95 suggests highly effective teaching strategies and strong student understanding in Chemistry.
- **Yellow Stream:** The score of 93 indicates robust performance, potentially benefiting from effective teaching practices.
- **Navy, Violet, and Orange Streams:** The lower average scores of 85 suggest room for improvement in teaching methods or resource allocation.

Recommendations:

- **Enhance Lower-Performing Streams:** Review and improve teaching methods and provide additional resources for the Navy, Violet, and Orange Streams to elevate their Chemistry scores.
- **Analyze Successful Strategies:** Examine and implement effective strategies from the Cream Stream and Yellow Stream in other streams to improve overall performance.
- **Ongoing Monitoring:** Continuously track Chemistry performance and adjust support measures to address challenges and promote consistent improvement.

7.HISTORY

ADMISION_NUMBER		NAME	STREAM	HISTORY
1	15336	Fidel Castro	Indigo	100
2	14908	Abungu Ryan Otieno	Yellow	100
3	15246	Jacob Metoh	Indigo	100
4	15454	Okoth Washington Achola	Indigo	100
5	15396	Dancan Onyango Owino	Indigo	100

Stream Analysis:

- **Indigo Stream:** Achieves an exceptional performance with all five students scoring 100, indicating a perfect average score and outstanding results in History.
- **Yellow Stream:** Has one student scoring 100, reflecting a high performance but with limited representation.

Implications:

- **Indigo Stream:** The perfect score of 100 across all students suggests highly effective teaching methods and excellent student understanding in History.
- **Yellow Stream:** The single student with a perfect score indicates that History is well-taught in this stream, though more data is needed for a comprehensive analysis.

Recommendations:

- **Expand Successful Practices:** Analyze and replicate the teaching strategies used in the Indigo Stream to other streams to achieve similar high performance in History.
- **Enhance Support Across Streams:** Ensure that all streams have access to effective teaching resources and support to maintain high standards in History.
- **Monitor Performance Continuously:** Continue to track History performance and make adjustments to teaching methods and resources as needed to sustain and enhance student achievement.

8.GEOGRAPHY

ADMISION_NUMBER	NAME	STREAM	GEORAPHY
1	14700 Fidelis Ochieng Obade	Red	96
2	15361 Churchil Brown Ochieng	Pink	95
3	14810 Humphrey Otieno	Navy	95
4	15200 Byrone Moses Omenda	Navy	93
5	14764 Francis Okoth Ochieng	Orange	92

Stream Analysis:

- **Red Stream:** Leads with a top score of 96, indicating exceptional performance in Geography.
- **Pink Stream:** Has a strong score of 95, showing high performance but slightly below the Red Stream.
- **Navy Stream:** Shows two students with scores of 95 and 93, demonstrating solid performance overall but with a slight range in scores.
- **Orange Stream:** Scores 92, reflecting good performance but lower compared to the top streams.

Implications:

- **Red Stream:** The highest score of 96 suggests highly effective teaching and strong student understanding in Geography.
- **Pink Stream:** The score of 95 indicates robust performance, with effective teaching practices contributing to high results.
- **Navy Stream:** The range of scores (93-95) suggests good overall performance, but there may be slight variations in teaching effectiveness or student engagement.
- **Orange Stream:** The score of 92 shows room for improvement compared to the leading streams.

Recommendations:

- **Enhance Support for Lower-Scoring Streams:** Provide additional resources and review teaching methods for the Orange Stream to boost Geography performance.
- **Share Best Practices:** Analyze and implement successful strategies from the Red and Pink Streams in other streams to improve overall Geography performance.
- **Ongoing Monitoring:** Continuously track Geography performa nce and adjust teaching methods and support measures to address any challenges and promote consistent improvement.

9.CRE

	ADMISION_NUMBER	NAME	STREAM	CRE
1	15291	Lazan Barry	Indigo	99
2	15200	Byrone Moses Omenda	Navy	99
3	14700	Fidelis Ochieng Obade	Red	98
4	14975	Otieno Jeff Odero	Violet	98
5	15403	Ologi Isack Onyango	Yellow	98

Stream Analysis:

- **Indigo Stream:** Achieves a top score of 99, indicating exceptional performance in CRE.
- **Navy Stream:** Has a high score of 99, reflecting strong performance and effective teaching.
- **Red, Violet, and Yellow Streams:** All show high scores of 98, indicating excellent performance but slightly below the top two streams.

Implications:

- **Indigo and Navy Streams:** The perfect score of 99 suggests highly effective teaching methods and excellent student understanding in CRE.
- **Red, Violet, and Yellow Streams:** The scores of 98 reflect strong performance, with effective teaching practices contributing to high results, though slightly lower than the top scores.

Recommendations:

- **Enhance Teaching Across Streams:** Review and adopt successful teaching strategies from the Indigo and Navy Streams to elevate CRE performance in other streams.
- **Support and Resources:** Ensure all streams have access to high-quality teaching resources and support to maintain and enhance performance.
- **Continuous Monitoring:** Track CRE performance regularly and make adjustments to teaching methods and resources as needed to sustain high achievement levels.

10.AGRICULTURE

ADMISION_NUMBER		NAME	STREAM	AGRCULTURE
1	14738	Chris Hillary Ogweno	Silver	98
2	15353	Steve Warren Owino	Silver	98
3	15105	Wilfred Maroa	Red	95
4	15230	Oluoch Jacton Otieno	Navy	95
5	14700	Fidelis Ochieng Obade	Red	94

Stream Analysis:

- **Silver Stream:** Achieves the highest scores with both students scoring 98, indicating exceptional performance in Agriculture.
- **Red Stream:** Shows two students with scores of 95 and 94, reflecting strong performance but slightly below the top stream.
- **Navy Stream:** Has one student scoring 95, demonstrating high performance.

Implications:

- **Silver Stream:** The perfect scores of 98 suggest highly effective teaching methods and strong student understanding in Agriculture.
- **Red Stream:** The scores of 95 and 94 indicate solid performance with room for potential improvement compared to the Silver Stream.
- **Navy Stream:** The score of 95 shows strong performance, with effective teaching likely contributing to high results.

Recommendations:

- **Enhance Teaching for Lower-Scoring Streams:** Review and improve teaching methods and provide additional resources for the Red Stream to enhance Agriculture performance.
- **Leverage Successful Strategies:** Analyze and apply successful teaching practices from the Silver Stream to other streams to boost overall performance in Agriculture.

- **Ongoing Monitoring:** Regularly track Agric*ulture performance and adjust teaching methods and resources as needed to address challenges and promote continuous improvement.*

11.COMPUTER

ADMISION_NUMBER		NAME STREAM	COMPUTER
1	15144	Raymond Markein Silver	92
2	14789	Travez Mwendwa Samuel White	92
3	14599	Haron Komoni Kivuri White	90
4	14975	Otieno Jeff Odero Violet	88
5	14844	Muhusin Abdirashid Orange	88

Stream Analysis:

- **Silver Stream:** Achieves the highest score of 92 with one student, indicating strong performance in Computer Studies.
- **White Stream:** Shows two students scoring 92 and 90, reflecting high performance but with some variation.
- **Violet Stream:** Has one student scoring 88, demonstrating solid performance.
- **Orange Stream:** Shows one student scoring 88, reflecting good performance but lower than the top streams.

Implications:

- **Silver Stream:** The score of 92 suggests effective teaching methods and strong student understanding in Computer Studies.
- **White Stream:** The scores of 92 and 90 indicate high performance, with effective teaching likely contributing to these results.
- **Violet and Orange Streams:** The scores of 88 show solid performance but suggest areas for potential improvement compared to the top streams.

Recommendations:

- **Enhance Teaching for Lower-Scoring Streams:** Review and improve teaching methods and resources for the Violet and Orange Streams to boost Computer Studies performance.
- **Leverage Best Practices:** Analyze and apply successful strategies from the Silver and White Streams to other streams to enhance overall performance.
- **Ongoing Monitoring:** Continuously track Computer Studies performance and make adjustments to teaching methods and resources as needed to address challenges and support student improvement.

12. FRENCH

ADMISION_NUMBER	STREAM	NAME	FRENCH
1	14664 Yellow	Joe Biden Okwach	91
2	14908 Yellow	Abungu Ryan Otieno	89
3	15008 Silver	Alfred Mangere	89
4	14705 Navy	Sylvesta Otieno	88
5	14920 Indigo	Onyango Albert Pasha	85

Stream Analysis:

- **Yellow Stream:** Achieves the highest scores with two students, 91 and 89, indicating strong performance in French.
- **Silver Stream:** Shows one student scoring 89, reflecting high performance but slightly below the top stream.
- **Navy Stream:** Has one student scoring 88, demonstrating solid performance.
- **Indigo Stream:** Shows one student scoring 85, reflecting lower performance compared to other streams.

Implications:

- **Yellow Stream:** The scores of 91 and 89 suggest effective teaching methods and strong student understanding in French.

- **Silver Stream:** The score of 89 indicates good performance, with teaching methods likely contributing to high results.
- **Navy Stream:** The score of 88 shows solid performance, with room for potential improvement.
- **Indigo Stream:** The lower score of 85 indicates potential challenges or areas needing improvement in French.

Recommendations:

- **Enhance Support for Lower-Scoring Streams:** Review and improve teaching methods and resources for the Indigo Stream to boost French performance.
- **Leverage Successful Strategies:** Analyze and implement effective practices from the Yellow and Silver Streams to other streams to improve overall performance in French.
- **Ongoing Monitoring:** Regularly track French performance and adjust teaching methods and resources as needed to address challenges and support student improvement.

13.BUSINESS

ADMISION_NUMBER	STREAM	NAME	BUSINESS
1	15291 Indigo	Lazan Barry	97
2	14810 Navy	Humphrey Otieno	96
3	14645 Orange	Obadiah Phillip Okindo	96
4	15288 Maroon	Oketch Barrack Donald	96
5	15451 Maroon	Polo Evance Ochieng	96

Stream Analysis:

- **Indigo Stream:** Achieves the highest score of 97 with one student, indicating exceptional performance in Business Studies.
- **Navy Stream:** Shows one student scoring 96, reflecting strong performance.

- **Orange Stream:** Has one demonstrating high performance.
- **Maroon Stream:** Has two students scoring 96, indicating very strong performance.

Implications:

- **Indigo Stream:** The score of 97 suggests highly effective teaching methods and strong student understanding in Business Studies.
- **Navy, Orange, and Maroon Streams:** The scores of 96 across these streams indicate strong performance with effective teaching practices contributing to high results.

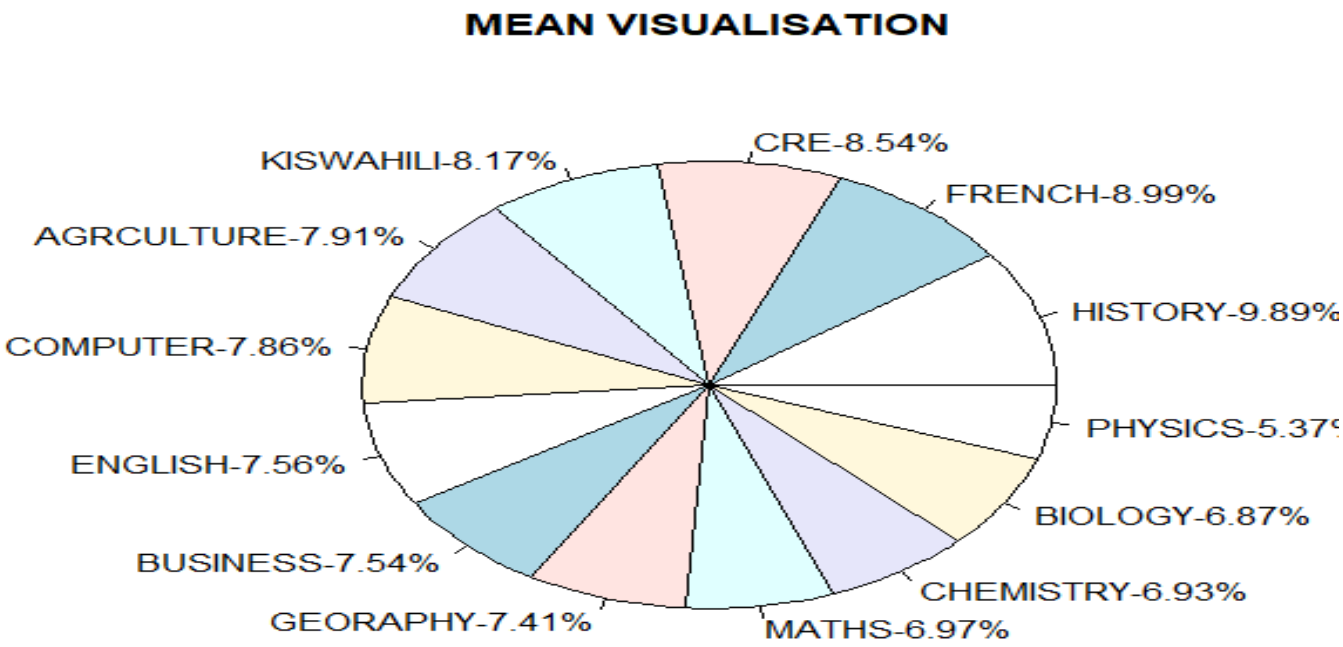
Recommendations:

- **Enhance Teaching for Lower-Scoring Streams:** If applicable, review and improve teaching methods and resources for any streams with lower performance to boost Business Studies results.
- **Leverage Best Practices:** Analyze and apply successful strategies from the Indigo Stream and Maroon Stream to other streams to improve overall performance.
- **Ongoing Monitoring:** Continuously track Business Studies performance and make adjustments to teaching methods and resources as needed to address challenges and support student improvement.
-

AVERAGE SCORE PER SUBJECT OVERALLY AND TOTAL MEAN

POSITION	SUBJECT	MEAN
1	HISTORY	76.68
2	FRENCH	69.73
3	CRE	66.2
4	KISWAHILI	63.33
5	AGRCULTURE	61.34
6	COMPUTER	60.92
7	ENGLISH	58.65
8	BUSINESS	58.46
9	GEORAPHY	57.46
10	MATHS	54.05
11	CHEMISTRY	53.74
12	BIOLOGY	53.3
13	PHYSICS	41.67
	TOTAL	775.53

VISUALIZATION OF INDIVIDUAL SUBJECT MEAN AS PERCENTAGE OF TOTAL



- ***Top Performers:***
    - **History** leads as the highest-scoring subject with an average of **76.68**. This indicates a strong grasp of historical concepts among students and suggests effective teaching practices and student interest in this area.
    - **French** comes in second with an average score of **69.73**. This high performance may reflect good language instruction and a strong focus on language acquisition.
    - **CRE (Christian Religious Education)** follows closely with an average score of **66.20**, showing that students are well-versed in religious studies, possibly due to culturally relevant teaching methods.
- ***Mid-Range Performers:***
    - **Kiswahili** and **Agriculture** have average scores of **63.33** and **61.34**, respectively. These subjects are performing well, but there is room for improvement to push them into the higher-scoring range.
    - **Computer Studies** also performs respectably with an average score of **60.92**, indicating that students are reasonably proficient in technology-related topics.
- ***Lower Performers:***
    - **English** and **Business Studies** have similar average scores of **58.65** and **58.46**. While these are not low, they suggest that students may need more support to excel in these subjects.
    - **Geography** has an average score of **57.46**, placing it among the lower-performing subjects. This might indicate difficulties in spatial reasoning or environmental topics.
    - **Mathematics** is in the lower range with an average score of **54.05**, suggesting a need for enhanced mathematical understanding and problem-solving skills among students.
- ***Struggling Subjects:***

- **Chemistry** and **Biology** have average scores of **53.74** and **53.30**. These scores suggest that students might be finding challenges in the sciences, possibly due to the complexity of these subjects.
- **Physics** is the lowest-scoring subject with an average of **41.67**. This indicates significant difficulties and suggests that both teaching strategies and student engagement need to be critically reassessed.

2. Implications:

- **High-Performing Subjects:** The success in History, French, and CRE suggests that the instructional methods and resources in these subjects are highly effective. These subjects likely have well-structured curricula, engaged students, and effective teaching staff.
- **Moderate Performance:** Subjects like Kiswahili, Agriculture, and Computer Studies are performing well but could benefit from targeted improvements. The scores indicate that while students are doing well, there is potential for these subjects to reach even higher standards.
- **Low-Performing Subjects:** The lower scores in subjects like Mathematics, Chemistry, Biology, and especially Physics, are concerning. These subjects may be more challenging for students, indicating the need for improved teaching methods, additional resources, or more engaging instructional approaches.

3. Recommendations:

- **Enhance Teaching Methods:** Leverage the successful strategies used in History, French, and CRE across other subjects. For example, incorporating more interactive or culturally relevant materials could benefit subjects like English and Geography.
- **Focus on Science and Mathematics:** Since the sciences and Mathematics are scoring lower, consider implementing additional tutoring sessions, hands-on experiments, and practical problem-solving exercises to improve understanding and retention in these areas.

- **Targeted Support for Physics:** Given that Physics is significantly lagging, a thorough review of the teaching methods and curriculum is recommended. Specialized workshops, peer tutoring, and extra classes could be beneficial to help students grasp fundamental concepts.
- **Regular Assessment and Feedback:** Establish regular assessments to monitor progress in lower-performing subjects. Continuous feedback to both students and teachers will help in making timely adjustments to teaching strategies.
- **Resource Allocation:** Allocate additional resources such as study materials, lab equipment, and technology tools to the subjects that need them most. Engaging students through varied learning methods can also help improve overall performance.

4. Overall Conclusion:

The total mean of **775.53** reflects the collective performance across all subjects. While there are areas of excellence, the significant disparity in subject averages highlights the need for focused interventions, especially in the sciences and Mathematics. By implementing the above recommendations, the school can work towards elevating the performance in all subjects, ensuring a more balanced and comprehensive educational experience for the students.