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[FREE VERSION] Detailed Study Guide: Introduction to Statistical Methods

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This guide provides a comprehensive list of free online resources for each topic.

Module 1: Basic Probability & Statistics

1.1. Measures of Central Tendency (Mean, Median, Mode)

- **Articles/Blogs:**

- A Scribbr article with clear examples and visuals.
 - **Link:** <https://www.scribbr.com/statistics/central-tendency/>
- An in-depth guide from Statistics by Jim.
 - **Link:** <https://statisticsbyjim.com/basics/measures-central-tendency-mean-median-mode/>

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- **Recommended Videos:**

- On YouTube, search for: "**measures of central tendency crash course**" or "**mean median mode organic chemistry tutor**"
 - <https://www.youtube.com/watch?v=kn83BA7cRNM&t=5s>
- Look for results from **CrashCourse**, **The Organic Chemistry Tutor**, and **Khan Academy**.
 - <https://www.youtube.com/watch?v=GrynkZB3E7M>

1.2. Measures of Variability (Range, Variance, Standard Deviation)

- **Articles/Blogs:**

- A Scribbr article explaining the different measures of variability.

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- **Link:** <https://www.scribbr.com/statistics/variability/>
- A university resource with step-by-step calculations from LibreTexts.
 - **Link:** [https://stats.libretexts.org/Bookshelves/Introductory_Statistics/Introductory_Statistics_2e_\(OpenStax\)/02%3A_Descriptive_Statistics/2.08%3A_Measures_of_the_Spread_of_the_Data](https://stats.libretexts.org/Bookshelves/Introductory_Statistics/Introductory_Statistics_2e_(OpenStax)/02%3A_Descriptive_Statistics/2.08%3A_Measures_of_the_Spread_of_the_Data)
- **Recommended Videos:**
 - On YouTube, search for: "**variance and standard deviation statquest**"
 - <https://www.youtube.com/watch?v=SzZ6GpcfoQY>
 - This is the best video for this topic. Look for the channel **StatQuest with Josh Starmer**.
 - <https://www.youtube.com/watch?v=A82brFpdr9g>

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Data Symmetric & Asymmetric (Skewness)

- **Articles/Blogs:**
 - A Scribbr article with clear graphs of positive and negative skew.
 - **Link:** <https://www.scribbr.com/statistics/skewness/>
 - A "Towards Data Science" blog post on Skewness and Kurtosis.
 - **Link:** <https://towardsdatascience.com/skewness-kurtosis-simplified-1338e094fc85/>
- **Recommended Videos:**
 - On YouTube, search for: "**skewness and kurtosis explained**"
 - <https://www.youtube.com/watch?v=EWuR4EGc9EY>
 - Look for clear, visual explanations from channels like **jbstatistics** or **DATAtab**.

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- <https://www.youtube.com/watch?v=Gp6dqDLchbk>

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