

# Statistics Project Checklist & Self-Assessment

**Topic has been selected**

"FORM" has been submitted (1 per pair)

Exceeding	Meeting	Partially Meeting	Not Yet Meeting
Clear topic that is meaningful and appropriately challenging is defined.	Topic is defined.	Topic is vague.	Topic not clearly defined.

**Data has been collected**

Exceeding	Meeting	Partially Meeting	Not Yet Meeting
A variety of data is collected from a variety of high quality resources. Student collects more data values than the minimum number stated.	Multiple sources are used to collect the stated number of data values.	Limited sources are used OR low quality sources are used OR not enough data values are collected.	Low quantity of data collected from unreliable sources.  Sources not referenced.

**Reflections on the Variation of Your Data**

Exceeding	Meeting	Partially Meeting	Not Yet Meeting
Meaningful and detailed reflections given regarding the consistency of the data, the reasons for inconsistency and the bias that may be present.	Reflections given regarding the consistency of the data, the reasons for inconsistency and the bias that may be present.	Minimal reflections given regarding the consistency of the data, the reasons for inconsistency and the bias that may be present.	Little to no reflection given regarding the consistency of the data, the reasons for inconsistency and the bias that may be present.

**Mean and Standard Deviation Calculations**

Exceeding	Meeting	Partially Meeting	Not Yet Meeting
Mean and standard deviations calculated – no calculation errors	Mean and standard deviations calculated – minimal calculation error	Mean and standard deviation calculated – large calculation errors	Mean and standard deviation not calculated.

**Z-Score Calculations**

Exceeding	Meeting	Partially Meeting	Not Yet Meeting
Z-scores for 5 data values are calculated with no error.  Detailed explanation demonstrates the student's clear understanding of what each z-score represents in the context of this topic.	Z-scores for 5 data values are calculated with minimal error.  Explanation demonstrates a basic understanding of what each z-score represents in the context of this topic.	Z-scores calculated with some error. Less than 5 values calculated.  Explanation demonstrates a minimal understanding of z-scores.	Z-scores not calculated or calculated incorrectly.  Little to no explanation given regarding z-scores.

**Z-Score Recalculations**

<b>Exceeding</b>	<b>Meeting</b>	<b>Partially Meeting</b>	<b>Not Yet Meeting</b>
Multiple data values are adjusted with reflection and z-scores are accurately recalculated.	1 – 2 data values are adjusted and z-scores are recalculated.	1 – 2 data values adjusted and z-scores recalculated with some error.	No data values changed.

**Reflection Questions**

<b>Exceeding</b>	<b>Meeting</b>	<b>Partially Meeting</b>	<b>Not Yet Meeting</b>
Thoughtful and detailed reflections go beyond the basic requirements of the sample reflection questions given in each project outline.	Reflections give basics answers to sample reflection questions stated in project outline.	Reflection minimally answers some of the sample reflection questions.	No reflection given.

**Sample Questions**

<b>Exceeding</b>	<b>Meeting</b>	<b>Partially Meeting</b>	<b>Not Yet Meeting</b>
3 appropriately challenging questions using project data are stated and thoroughly and accurately solved.	3 questions using project data are stated and solved.	Questions may be vague/unclear, lacking quantity (3), not linked lesson 5.4/5.5.	No questions given.

**Presentation**

- Presentation tools created (example: PowerPoint/SWAY/Prezi)
  - Slides make good use of space (i.e. not too many words on each slide)
  - Slides are visually appealing and will hold the audience's attention
  - Images and diagrams add to presentation's value
  - Animations are used to transition between/within slides
- All relevant criteria are included in presentation (refer to above checklist)
- Presentation is rehearsed
  - Members of the group know what they are saying and when
  - Members are familiar with their lines and will not have to read off the slides
- If necessary, alternate arrangements have been made with Ms. Jackson if group members cannot present on assigned date.