**Mathematics Rich Assessment Task: Collecting & Presenting Data**

**Today you must work by yourself to...**

1. **Create a series of questions (e.g. a questionnaire) for a real life data investigation. Your investigation must either:**
	* **prove,**
	* **disprove, or**
	* **identify something that needs to be improved.**

**Your questions must collect both data types:**

1. **Categorical**
2. **Numerical.**
3. **Collect the data by observation or survey, using an appropriate table and correctly used tally marks.**
4. **Present the data using:**
	1. **A pictograph**
	2. **A bar graph**
	3. **A column graph**
	4. **A pictograph where one picture represents many**
	5. **A dot plot.**
	6. **A side-by-side column graph.**
	7. **Stem and leaf plots (if possible)**
	8. **The most efficient graph possible (sorted or grouped) and explain why this is the most efficient graph.**
	9. **A graph using Microsoft Excel or Numbers (iPad).**
5. **Write a concluding paragraph that explains how you investigation has:**
* **proved,**
	+ **disproved, or**
	+ **identified something that needs to be improved**

**and list the steps that you or others could take in the future as a result of this investigation.**