# Summary Report (07/10/2014)

## Summary got using Mead

Parameters:

* Extract 3 sentences
* Assume that the survey for each week is a single document
  + a single document task
  + A separate summary for POI, MP, LP
* Assume the response given by a student is a single sentence
  + It is not true because some of students put several sentence together [without punctuations]

Example Summary:

|  |  |  |
| --- | --- | --- |
| Week | TA’s Summary:POI | Mead’s Summary:POI |
| 1 | 1) Group activity of analyzing bicycle's parts [12]  2) Materials processing [6] 3) The main topic of this course [4] | [1] i thought it was interesting that only 3 families of materials were mentioned. do all materials fit into those categories? or are there others that not studied in this class? [2] i was interested in learning what i will be learning about this semester [3] the most interesting thing in today's class was learning about the grading scale because i have never heard of a normalized grading scale, and i like the fairness of it; |
| 2 | 1) Differents bonds and their effect on materials properties;2) Diamond Tthermal conduction;3) Motorcycle's parts activitiy | [1] i found that the higher the electronegativity difference that the type of bonding changes. usually if its higher, the bonding is stronger and is usually ionic. this was fairly interesting for me.; [2] i found all the different bonds and their characteristic very interesting and in the activity i thought it was interesting to figure out what a motorcycle was made of; [3] i found it interesting to apply chemical bonding to parts of a motorcycle. in chemistry, we never applied bonding to materials like a car seat or windshield; |
| 3 | 1) How bond strength is related to melting point [10];2) Relative strenghts of different bond types [8];3) Elastic modulus [5];4) How plastic bags are made by polymer fil blowing [4] | [1] bond energy diagram and its relationship to coeff of thermal expansion; [2] i like learning about the microscopic explanation for the microscopic properties, especially, i liked learning about bond strengths; [3] 1) how bond strength is related to melting point [10]2) relative strenghts of different bond types [8]3) elastic modulus [5]4) how plastic bags are made by polymer fil blowing [4]; |
| 4 | 1) Specific structure & their properties [16];2) The real world examples and disasters relation to materials [15] | [1] you can grow silicon in different crystal structures (100, 111, 110) and this dictate the properties & type of transistor you can build; [2] it was interesting to bring in history ( napoleon) to class. its easier to see a connection when i can see real life examples.; [3] i enjoyed learning about the properties of different structures of different materials; |
| 5 | 1) Unit cell direction drawing and indexing [14];2) Real world examples [4];3) Importance of cell direction on materials properties | [1] unit cell directions, i like the method to draw the direction; [2] 1) unit cell direction drawing and indexing [14]2) real world examples [4]3) importance of cell direction on materials properties; [3] i found the activities interesting because i feel i understand the concept of the structure of unit cells; |
| 6 | 1) Planes, the technique for drawing them, indexing them and being understandable [24];2) Structure of salt [2] | [1] really liked the concept of planes and their directional relationship to the packing directions; [2] i liked learning about and drawing the planes, its really fun and i found it interesting; [3] 1) planes, the technique for drawing them, indexing them and being understandable [24]2) structure of salt [2]; |

### Observations:

* The extracted summary is much longer than the TA’s summary
  + The TA’s summaries are just phrases instead of sentences
  + Need to be tested with further experiments: average word length
* Some of the Mead summary really make senses [highlighted]
  + In week 5, “real world examples” are exactly the same
  + In week 6, all the two sentences are extracted correctly

## TODO

* Evaluate the summary with ROUGH score (<http://www.berouge.com/>)
  + Most popular metric to evaluate a summary
  + ’m still waiting the permission to download the toolkit