Codebook:

Study 1 Data –

1. onegrams – percentage overlap of single words in notes with single words in lecture text
2. twograms - percentage overlap of two-word chunks in notes with two-word chunks in lecture text
3. threegrams - percentage overlap of three-word chunks in notes with three-word chunks in lecture text
4. wordcount – number of words in student notes
5. rspanabsolute – absolute measure of reading span working memory
6. rspantotal – total measure of reading span working memory
7. sixletters – LIWC analysis; percentage of six-letter (or greater) words
8. auxverbs – LIWC analysis; percentage of auxiliary verbs
9. presentverbs – LIWC analysis; percentage of present-tense verbs
10. pronouns – LIWC analysis; percentage of pronouns
11. personalpronouns – LIWC analysis; percentage of personal pronouns
12. articles – LIWC analysis; percentage of articles
13. negation – LIWC analysis; percentage of negation words
14. certainty – LIWC analysis; percentage of certainty-related words
15. punctuation – LIWC analysis; percentage of punctuation
16. condition
    1. 0 = laptop
    2. 1 = longhand
17. whichtalk
    1. islam
    2. inequality
    3. ideas
    4. indus
    5. algorithms
18. relatedknowledge – How much knowledge did you have related to the topic of the talk did you have before today?
    1. 0 = none; 5 = expert knowledge
19. year
    1. 1 = senior
    2. 2 = junior
    3. 3 = sophomore
    4. 4 = freshman
20. GPA
21. concentration
22. SATreading
23. SATmath
24. SATwriting
25. SATcombined
26. laptopornotebook – Do you normally take notes in class on your laptop or in a notebook?
    1. 1 = laptop
    2. 2 = longhand
    3. 3 = it depends
27. betterlorn - In general, do you think it is better for learning purposes to take notes on a laptop or in a notebook?
    1. Laptop significantly better (1) – Notebook significantly better (7)
28. objectiveZ – Z-score on objective items
29. openZ – Z-score on conceptual items
30. openandobjectiveZ – overall Z-score
31. rawobjective – raw score on objective items
32. rawopen – raw score on conceptual items

Study 2

1. onegrams – percentage overlap of single words in notes with single words in lecture text
2. twograms - percentage overlap of two-word chunks in notes with two-word chunks in lecture text
3. threegrams - percentage overlap of three-word chunks in notes with three-word chunks in lecture text
4. wordcount – number of words in student notes
5. rspanabsolute – absolute measure of reading span working memory
6. rspantotal – total measure of reading span working memory
7. condition
   1. 1 = longhand
   2. 2 = laptop
   3. 3 = intervention
8. whichtalk
   1. islam
   2. inequality
   3. ideas
   4. indus
   5. algorithms
9. correctedWPM – typing score, corrected for errors made
10. rawWPM – typing score, uncorrected
11. priorknowledge - How much knowledge did you have related to the topic of the talk did you have before today?
    1. 0 = none; 5 = expert knowledge
12. difficultnotes - How difficult did you find the note-taking part of the task?
    1. (7 points: not at all difficult – extremely difficult)
13. difficultquestions - How difficult did you find the questions aked about the lecture you saw?
    1. (7 points: not at all difficult – extremely difficult)
14. yeargraduate
    1. 1 = senior
    2. 2 = junior
    3. 3 = sophomore
    4. 4 = freshman
15. GPA
16. major
17. SATreading
18. SATmath
19. SATwriting
20. SATcombined
21. normallytakenotes – Do you normally take notes in class on your laptop or in a notebook?
22. whichisbetter - In general, do you think it is better for learning purposes to take notes on a laptop or in a notebook?
    1. Laptop significantly better (1) – Notebook significantly better (7)
23. differentclasses - Does your choice to take notes on a laptop or in a notebook differ depending on whether it is a humanities, science, or math course?
24. typingskills – how would you rate your typing skills?
25. NFCscale – Need for Cognition scale
26. ACASC1scale – Academic self-concept scale #1
27. ACASC2scale – Academic self-concept scale #2
28. Confidencescale – academic confidence scale
29. objectiveZ – Z-score on objective items
30. openZ – Z-score on conceptual items
31. openandobjectiveZ – overall Z-score
32. rawobjective – raw score on objective items
33. rawopen – raw score on conceptual items
34. rawall – overall raw score

Study 3:

1. laptoporlonghand
   1. 0 = laptop
   2. 1 = longhand
2. studyornostudy
   1. 0 = study
   2. 1 = nostudy
3. wordcount – number of words in student notes
4. onegrams – percentage overlap of single words in notes with single words in lecture text
5. twograms - percentage overlap of two-word chunks in notes with two-word chunks in lecture text
6. threegrams - percentage overlap of three-word chunks in notes with three-word chunks in lecture text
7. RF1 – RID2 – scores on each of the respiration questions
8. BAF1 – BID2 – scores on each of the bats questions
9. BRF1 – BRID2 – scores on each of the bread questions
10. VF1 – VID2 – scores on each of the vaccines questions
11. batsknowledge – prior knowledge about bats
12. vaccineknowledge – prior knowledge about vaccines
13. breadknowledge – prior knowledge about bread
14. respirationknowledge – prior knowledge about respiration
15. describeknowledge – describe your prior knowledge
16. year
    1. 1 = senior
    2. 2 = junior
    3. 3 = sophomore
    4. 4 = freshman
17. GPA
18. major
19. SATreading
20. SATmath
21. SATwriting
22. SATcombined
23. laptopornotebook – Do you normally take notes in class on your laptop or in a notebook?
24. differentclasses - Does your choice to take notes on a laptop or in a notebook differ depending on whether it is a humanities, science, or math course?
25. typingskills – how would you rate your typing skills?
26. Zfactsfinal – Z-score on questions labeled “facts”
27. Zdetailsfinal – Z-score on “seductive details”
28. Zconceptsfinal – Z-score on “concepts”
29. Zinferencesfinal – Z-score on “inferences”
30. Zapplicationsfinal – Z-score on “applications”
31. Zfactualfinal – Z-score on facts & seductive details, collapsed
32. Zconceptualfinal – Z-score on concepts, inferences, & applications, collapsed
33. Ztotalfinal – overall Z-score
34. sumtotalscores – raw overall score
35. sumtotalfactual - raw score on factual items
36. sumtotalconceptual – raw score on conceptual items