What is the 2000-word essay?

- Aim to identify any aspect of the taught material that you feel is unsupported
 - Focus on lack of support across the field
 - Does the topic have many unanswered questions?
 - Do the explanations make sense? The unified oscillator
 - Is there a cottage industry of alternative models out there? -> there are individual oscillator models, but wang unifies them.
 - Do not focus on possible errors in lectures

What is the 2000-word

- ldentify the topic | Southern Oscillations | Southern Oscillations | Issues w/ Wang 2001? | Issues w/ Wang 2001? | Issues w/ other models | Identify issues with the model | Item suggest wang as the solution. Identify data and evidence that suggests model needs revising - why doesn't wang work? Are there issues w/ needs revising to there?
- Suggest and defend new model or models
 - 'Multiple working hypotheses'
 - New model should have better fit with data

ALMOST ALL PUBLISHED PAPERS ARE WRONG!!

What is the 2000-word essay?

- The 2000-word essay should be partly a literature review
- You need to have a substantive understanding of topic
- You need to have read around topic thoroughly
- Aim to write like a Nature 'Review Article'
- · Go over all the different oscillator models and try to find issues & solutions to it.
 · 2000 words; part literature review

How will the essay be assessed?

- Scientific writing quality (30%)
 - 10% for overall quality
 - 20% for avoiding common errors
- Depth of understanding (30%)
 - Quality of reference list
 - Demonstrable understanding of literature and issues
- Identification of incorrect 'paradigm' (20%)
- Introduction of alternate hypotheses (20%)

DUE: May 1, 2018