**Year 12 Human Biology 2020   
Topic Outline**

**Topic: Hominid Evolutionary Trends (Term 3 weeks 6-8)**

\*Pre-reading: Prior to the beginning of this topic, students should read *Human Perspectives* Chapter 18: Evolutionary Trends in Hominids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Lesson** | **Syllabus Links** | **Lesson Content** | **Study/Homework** |
| **6** | **A** | Science Inquiry Skills  Represent data in useful and meaningful ways; organise and analyse data to identify trends, patterns and relationships; discuss ways in which measurement error, instrument accuracy, the nature of procedure and sample size may influence uncertainty and limitations in data; and select, synthesise and use evidence to make and justify conclusions  Select, use and/or construct appropriate representations, including phylogenetic trees, to communicate conceptual understanding, solve problems and make predictions  Communicate to specific audiences and for specific purposes, using appropriate language, nomenclatures, genres and modes, including scientific reports  Science Understanding  Hominid evolutionary trends  Humans as primates are classified in the same taxonomic family as the great apes. The species within the family are differentiated by DNA nucleotide sequences, which brings about differences in: Relative size of cerebral cortex,Mobility of digits,Locomotion – adaptations to bipedalism and quadrupedalism, Prognathism and Dentition  Determining relatedness and possible evolutionary pathways for hominids uses evidence from comparisons of modern humans and the great apes with fossils of: *Australopithecus afarensis, Australopithecus africanus, Paranthropus robustus, Homo habilis, Homo erectus, Homo neanderthalensis, Homo sapiens*  Tool use is seen in a number of hominid species and the study of these tools provides important insight into the evolution of the human cognitive abilities and lifestyle: trends are seen in the changes in manufacturing techniques and the materials used in the tool cultures of *Homo habilis, Homo erectus, Homo neanderthalensis, Homo sapiens* | Intro  Naming conventions and vocab  Adaptations for Erect Posture | Read through notes, add detail as needed  Do past exam question given in class (and on Connect)  Look at Ch Review and Apply Your Knowledge questions in *HP* and do any that are relevant to today’s work. Check answers on Connect |
|  | **B** | Adaptations for Erect Posture cont… | Read through notes, add detail as needed  Do past exam question given in class (and on Connect)  Look at Ch Review and Apply Your Knowledge questions in *HP* and do any that are relevant to today’s work. Check answers on Connect  Review class notes  Do relevant WACE Study Guide questions  Do Practice Test in WACE Study Guide |
|  | **C** | Stance and Locomotion  Relative size of cerebral cortex  Prognathism and Dentition |
|  | **D** | Human Ancestors  Effect of environment on hominin evolution  Australopithecines |
| **7** | **A** | Homo habilis  Homo erectus |
|  | **B** | Transition to modern humans |
|  |  | Cultural evolution |
|  | **C** | Revision |
|  | **D** | Revision |
| **8** | **B** | **Task 13: Test – Hominid Evolutionary Trends** |
|  | **C** | **Task 14: Extended Response – Hominid Evolutionary Trends** |

**Assessments: Tuesday 8th September (week 8) Task 13: Test – Hominid Evolutionary Trends**

**Thursday 10th September (week 8) Task 14: Extended Response – Hominid Evolutionary Trends**