



# HUMAN EVOLUTION

BIOLOGY

LEVEL 3

## Study Checklist

If you've picked up this checklist, congrats! You've begun the first step in a system of resources designed to help you through the Human Evolution external. To make the most of this, we suggest you sit down, grab a pen, and mark any points that you're feeling a little unsure of. Then, create a subject audit using our template, or refer to the page numbers to find the section in our walkthrough guide to help you out!

### BACKGROUND AND HOMININ EVOLUTION

- I can name the five groups of primates [4]
- I can describe the types of species within each group [4]
- I can explain the difference between hominins and hominids [4-5]
- I can define what genus and species humans belong to [5]
- I can describe what types of species are in the hominin group [5]
- I can explain what species 'Lucy' was and the niche of this species [6-7]
- I can explain the niche of Homo habilis [7-8]
- I can explain the niche of Homo erectus [8]
- I can explain the niche of Homo neanderthalensis [9]
- I can use the provided table to explain the time period in which different hominins lived [9]
- I can use the table to explain the trends in brain size, tool culture and advancements [9]

### BIPEDALISM

- I can explain the difference between a biped and a quadruped [9-10]
- I can explain the selection against being arboreal [10]
- I can discuss the skull differences between a biped and a quadruped [11-12]
- I can discuss the spine differences between a biped and a quadruped [12-13]
- I can discuss the pelvis differences between a biped and a quadruped [13-14]
- I can discuss the femur differences between a biped and a quadruped [14-15]
- I can discuss the foot differences between a biped and a quadruped [15-16]
- I can discuss the advantages and disadvantages of bipedalism [17-18]
- I can explain the difference in teeth and jaw of a human and an ape [18-19]
- I can explain the difference in brow ridge between a human and an ape [19]

## CULTURAL EVOLUTION

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- I can define cultural evolution [21]
- I can discuss the cultural evolution of tools [22-23]
- I can discuss how fire allowed for Homo erectus to leave Africa [24]
- I can discuss how the use of fire for light caused cultural evolution [24]
- I can explain how tools could be improved by the use of fire [25]
- I can discuss the advantages and disadvantages of farming [25-26]
- I can explain the trends in hominin intelligence [26]
- I can describe evidence for Neanderthal intelligence [27]
- I can discuss the trends in hominin communication [27]

## HUMAN ORIGIN AND DISPERSAL

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- I can describe the two models of human origin and dispersal [28]
- I can describe the three types of evidence used by scientists [29]
- I can discuss how mitochondrial DNA is used for evidence [29-30]
- I can discuss how Y chromosome analysis is used for evidence [30]
- I can describe the idea of dispersal [31]
- I can explain why they would've left Africa [31]
- I can discuss the 'Out of Africa' theory and the evidence to back it up [32-33]
- I can discuss the 'Multiregional Theory' and the evidence to back it up [34-35]

