

Review Worksheet: Primate Evolutionary Trends

Name:

*Do these questions, using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, correct it, and fill in the reflection section. Questions marked * require you to use reasoning, inferring and application of knowledge, or perhaps extra research to get the answer. It won't be right there in the text.*

- 1: What animals are included in the Primate Order?
(3 marks – 0.5 each for six examples)

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- 2: To which family to Humans and Great Apes belong?
(1 mark)

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- 3: Which other living primate shares the subfamily *Homininae* with humans?
(1 mark)

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- 4: What are the main features of primate digits?
(4 marks)

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- 5: Most primates have an opposable big toe. Humans are the exception. What is different about humans that would make having an opposable big toe a disadvantage?
(2 marks)

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- 6: How many teeth do Humans, Apes and Old World Monkeys have? What is their dental formula?
(2 marks)

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7: What is the most likely reason for the reduction in number of teeth in primates compared to early mammals?
(2 marks)

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8: How many cusps can be seen on the molar teeth of apes and humans, and how does this compare to other primates?
(2 marks)

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9: What is the advantage to arboreal primates of having an emphasis on vision?
(2 marks)

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10: What changes to the skull, eye and brain occurred to accommodate the emphasis on vision?
(5 marks)

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11: What is the function of the cerebral cortex and what trend can be seen in the cerebral cortex from lemurs to monkeys to apes to humans?
(3 marks)

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12: How are cerebral cortex size and the need for high parental care over a long period linked? (4 marks)

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13: Gene mutations occur via base deletion, substitution or insertion. For each, list one genetic disease that is caused in this way. (3 marks)

A: Disease caused by base deletion:

B: Disease caused by base substitution:

C: Disease caused by base insertion:

Go back and mark your work using the marking key provided. What score did you get? /33

I included enough detail and scientific terminology in my answers.



I was able to find information in the text/powerpoint presentation.



*I was able to reason and infer where the information wasn't directly in the text (questions with *).*

I marked my work and wrote down any answers where I missed marks.

