

Evolution and Inheritance

Summer 2

Week 9

Lessons 3 - 4



Lesson 3 - 4

L.O: To recorded initial ideas about evolution and inheritance

L.O: To be able to compare differences and find similarities in adaptation.

S.C.

- to recognise that living things have changed over time
- to begin to identifying scientific evidence that has been used to support or refute ideas or arguments



Vocabulary

Evolve
Chronological
Evolution
Inheritance



Comparison Difference Between Neanderthals Humans

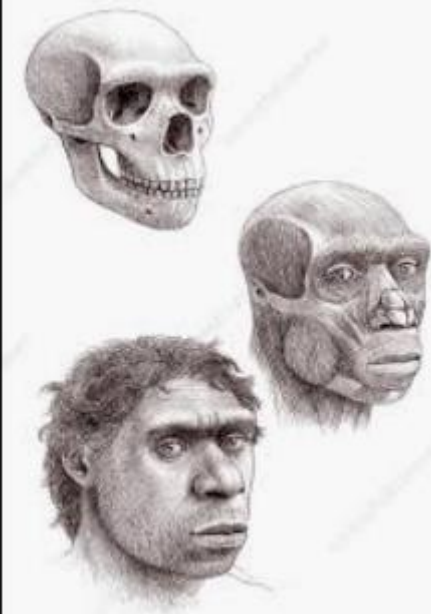
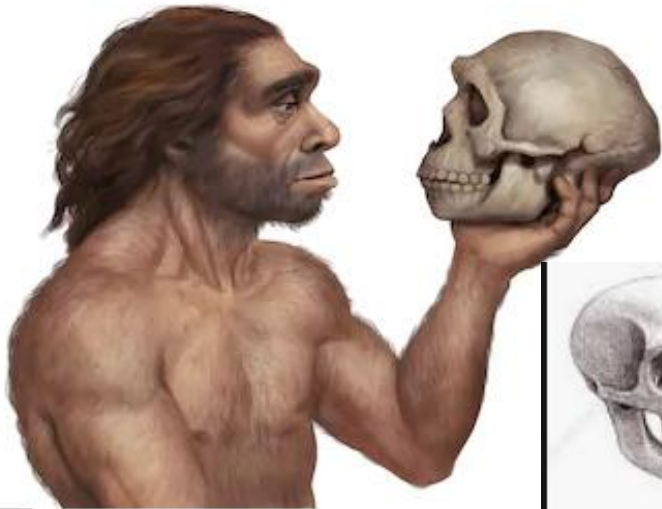


HOW do you think living things evolve? Why?

L.O: To recorded initial ideas about evolution and inheritance

L.O: To be able to compare differences and similarities in adaptation.

Discuss the adaptation of each individual.



Neanderthal

VS



Homo sapiens



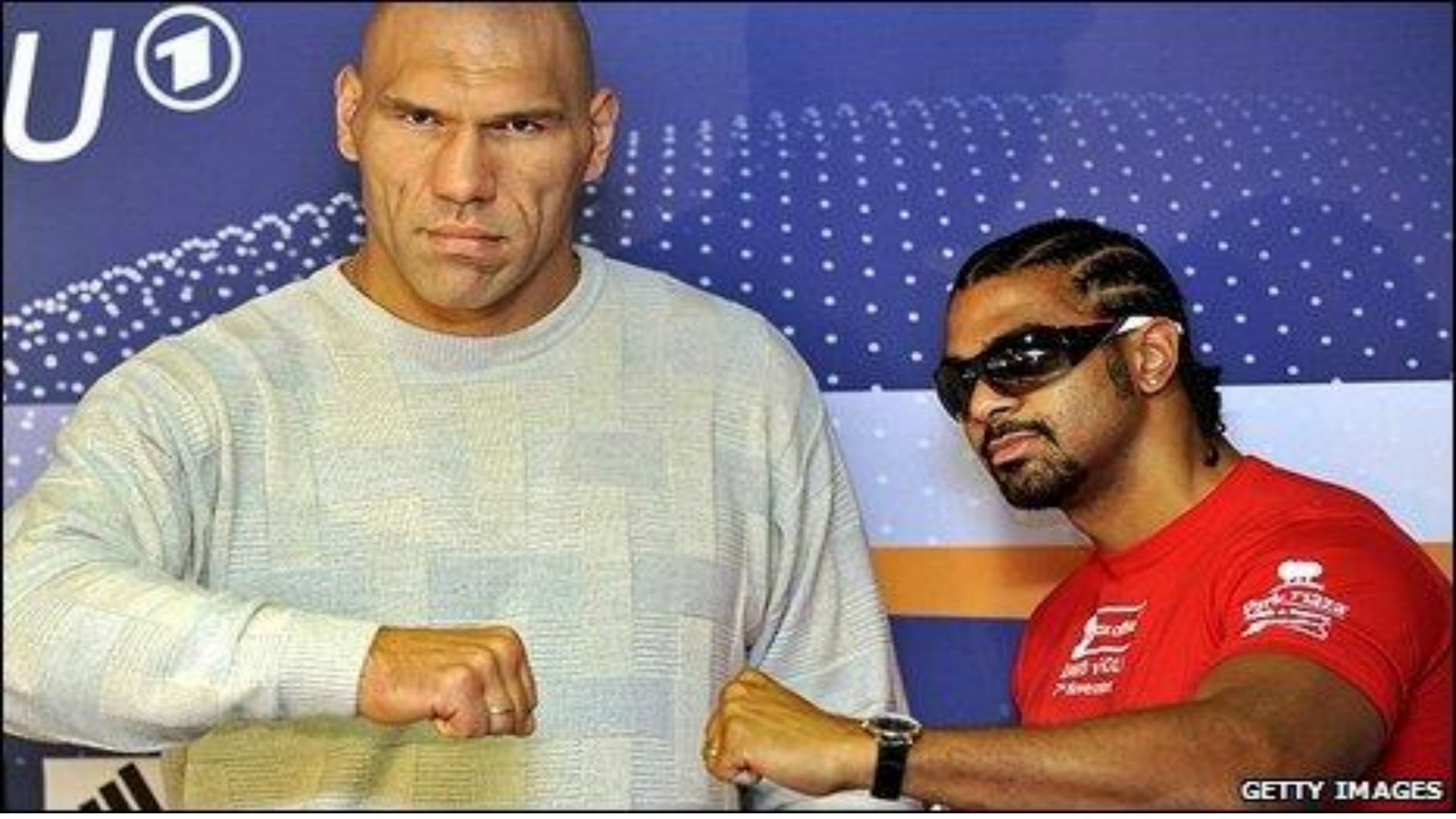
Neanderthal

VS



Homo sapiens





GETTY IMAGES

Task 1

L.O: To be able to compare differences and find similarities.

What are the similarities and differences?

Why do you think they are different?

What could be the scientific reason for adaptation / inheritance of their features?

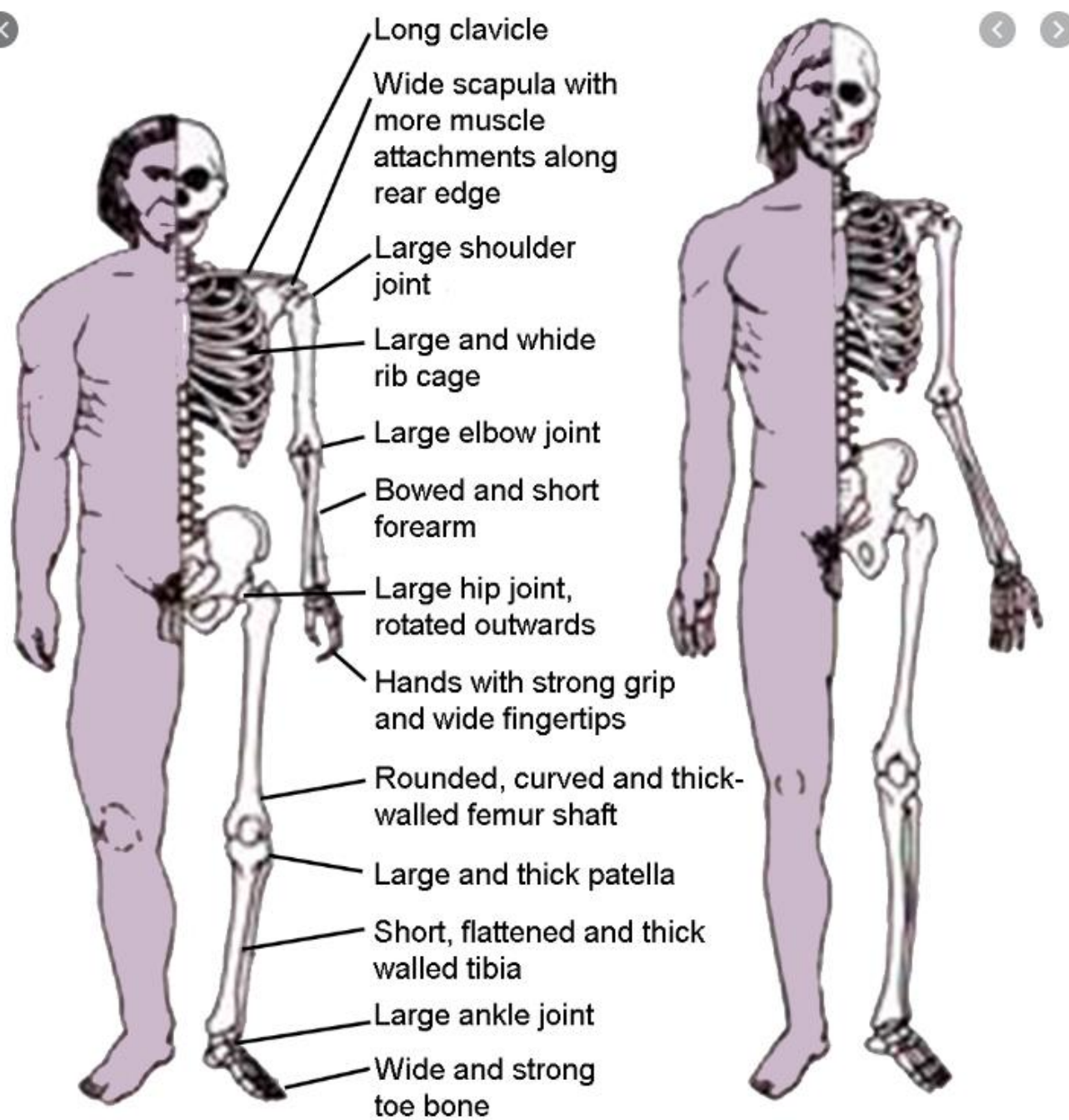
similarities	differences



Neanderthal

Modern human





NEANDERTHAL MALE

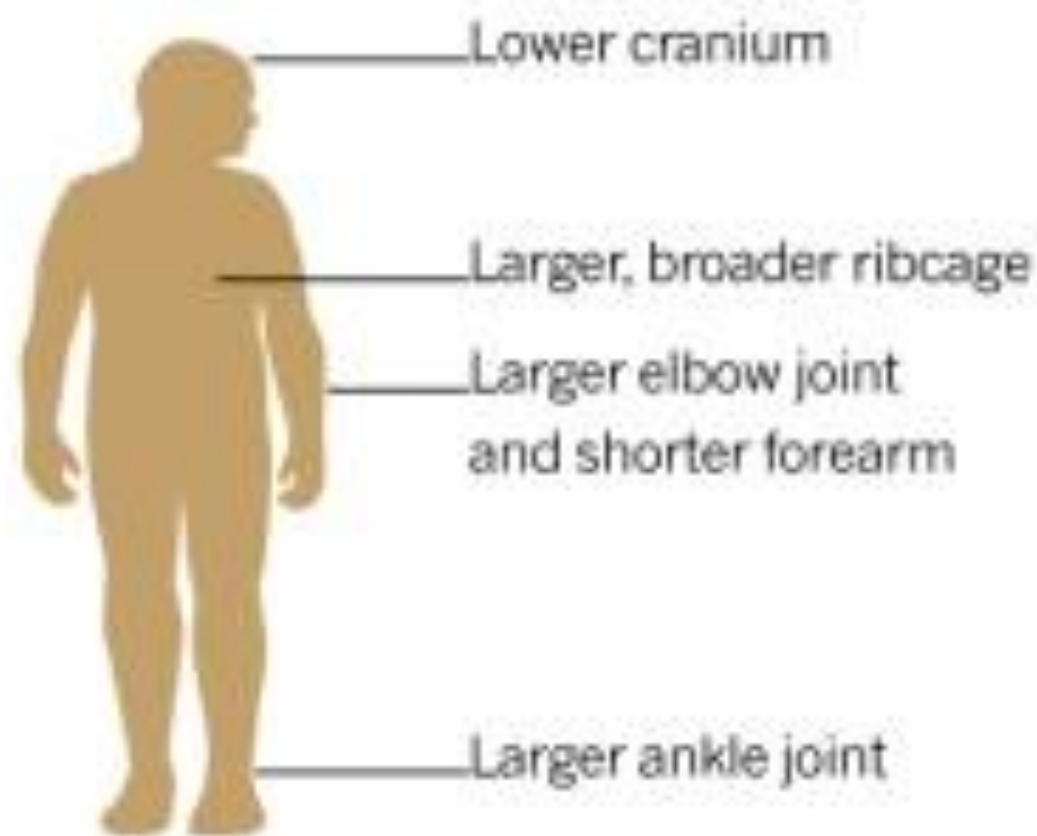
MODERN MALE

TWO KINDS OF HUMAN

Neanderthals were more robustly built than modern humans, which may have put different demands on their brains.



Modern human



Neanderthal

NEANDERTHALS VERSUS HOMO SAPIENS

Neanderthals are an extinct species of humans, that was widely distributed in ice-age Europe

Evolved about 400,000 to 40,000 years ago in Europe and Southwestern to central Asia

Had no subspecies

Lived in Europe and Southwestern to central Asia

Had a receding forehead with prominent brow ridges

Have a short and stocky body

Brain was larger compared to the body

Average male height was 5 ft 5 in. and female height was 5 ft 1 in.

Weight of males was 143 lbs and weight of females was 119 lbs

Lived in caves, hunting animals and gathering food

Used symbolic and ornamental objects occasionally

Homo sapiens refer to the primate species to which modern humans belong

Evolved about 200,000 years ago in Africa

Homo sapiens sapiens and Homo sapiens idaltu are the two subspecies

Live all over the world

Have a flat and near vertical forehead

Have a lighter build

Brain is smaller compared to the body

Average male height was 5 ft 7.5 in. and female height was 5 ft 2 in.

Weight of males was 119-141 lbs and weight of females was 168-183 lbs

Spends a settled life, producing food through agriculture and domestication

Uses much more complex symbols as well as languages for communication

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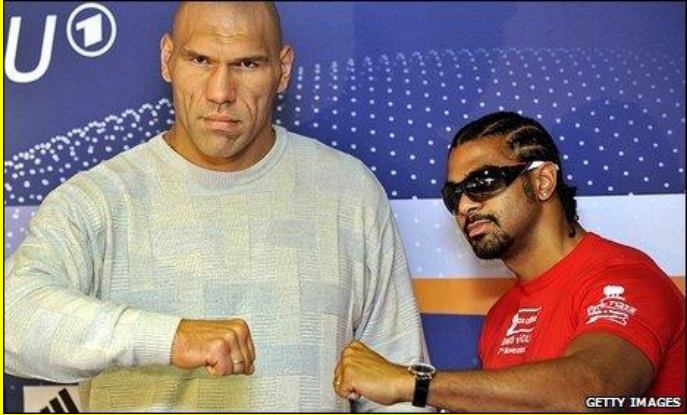
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What are the similarities and differences?

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similarities	differences



Mild

Task 2: WHY do you think Homo sapiens are different from Neanderthal?

Draw the differences into your book.

MILD: Write a paragraph giving your suggestions and as to why homo sapiens adapted from the original Neanderthal frame.

Spicy / Hot

Task 2: WHY do you think Homo sapiens are different from Neanderthal?

SPICY / HOT: Write a short report (including an introduction and conclusion) specifying the similarities and differences in more detail.

Give suggestions and as to why Homo sapiens adapted from the original Neanderthal frame.