## Clash of the Cavemen: Neanderthals versus Cro-Magnons

We will watch the excellent documentary "Clash of the Cavemen" to learn about Neanderthals and the early humans who lived in Europe. Do a search of "Clash of the Cavemen" at <a href="www.youtube.com">www.youtube.com</a>. (In 2012, when this sheet was printed, you can search for "Neanderthal vs Cro-Magnon 1of10" that was uploaded by PrimitiveByNature.)

"Neanderthal vs Cro-Magnon 1of10" found at <a href="http://www.youtube.com/watch?v=gUifwntZBZw">http://www.youtube.com/watch?v=gUifwntZBZw</a>

In Southern Europe, in 28,000 BC, Neanderthals were hunting a reindeer herd and then they meet Cro-Magnons.

	Neanderthals	Homo sapiens (Cro-Magnons)
Physical and Mental Characteristics		
Weapon Technology		
<b>Problem Solving Solution</b>		
disappeared within a few thousand question at the end of the video.	ans, Neanderthals lived in Europe for d years of contact with the Cro-Magnons d Cro-Magnons could fit into the back o	s. Why did that happen? Answer this
Skull		
Body (Below the Neck)		
Neanderthals are the first extinct p  Chimpanzee are% identice  The common ancestors of Neander Man") or ("Rho  years ago, Neanderthals drove them out of E	cal to us; Neanderthals are about orthals and Homo sapiens might be	% identical to us("Heidelberg time. Both had similar technology.
"The Great Leap" of the Cro-Magnon		
<ul> <li>A 32,000 year-old bone with hole reindeer herds.</li> </ul>	s in it was found—it was a	to track the movement of

• About years ago	o: New, sharper tools appear. Cave pair	ntings, jewelry, and sculptures also
appear. A dramatic change in cul	ture! Bone tools appear that are shaped	and shaved. All this about 100,000
years after our species came into l	being. This is referred to as "The Great	Leap" of the Cro-Magnons.
A symbol-ready brain sparked by	major cultural stimulus of language?	-
• Evidence of language:		
	communication system, but not sure if it	t vias a "tmis" languaga
-	•	5 5
	cies have it. Neanderthal's larynx (voic	
	ot say certain vowels like "oo" and "ah."	
<ul> <li>Europe was shared by two species</li> </ul>	s of upright ape for about	years.
rear :		
Diet		
Caloric Intake (per day)		
• Stable isotope analysis allows us	to see what people ate.	
Were Neanderthals cannibals?		
Neanderthals hunt a wooly rhinoceros	·.	
TT (* 75. ) *	T	T
<b>Hunting Techniques</b>		
7.5.100		
Mobility	% more energy needed to	
	run than Cro-Magnons. Stocky	
	bodies not good for running long	
	distances.	
Neanderthals and Cro-Magnons li	ved together for about 5000 years—from	n the time of the first pharaoh of
Egypt until now.	<b>,</b>	1
Was there any interaction between us	and them?	
Camps or Dwellings		
Could humans and Neanderthals have	babies together?	
Did Neanderthals bury their dead?		
<b></b>		
Did our modern human ancestors kille	d off Neanderthals with respiratory relat	ted infections?
William Contains and all the c	1. N 1 1 . 1 . 9	
What factors caused the extinction of	ne ineanderthais?	

# video REFLECTION

What did you think of the video "Clash of the Cavemen" and how o	lid it make you feel?
Relay some of the important facts that surprised you.	
Rubric: Ideas/feelings shared poorly/satisfactorily/well =/3 Reasons for ideas were stated poorly/satisfactorily =/2	CONTENT CHECKED,
How Is Mr. William Similar to and Different from a Neanderthal?	
You will get up to SEVEN points if you state at least seven differences and	d/or similarities.  CONTENT CHECKED,  CONTENT CHECKED,
tion to the New York and the Control of the Control	conten .

not conventions.





SELF-ASSESSMENT:\_\_\_/5
PEER ASSESSMENT: \_\_\_/5

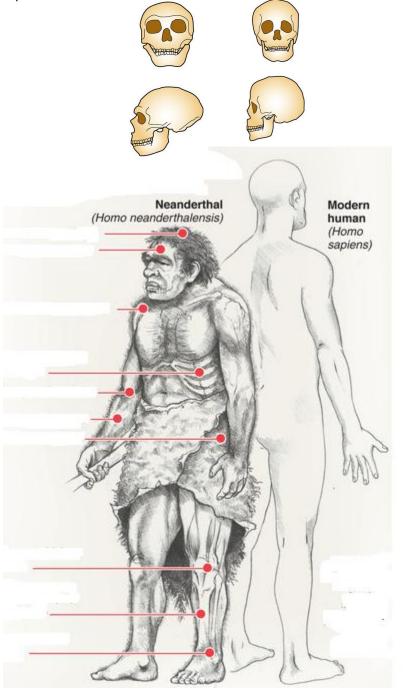
#### <u>Humans shared the earth with Neanderthals for thousands of years.</u> Both species were very similar and very different.

	itical Thinking: In today's society, do you think people tend to focus on differences of religion, cuin color, etc. more than what everyone has in common? Share how you feel about this.
	If-Examination: How do you treat people who are different than you? Do you "look down" on or ltures or countries? Do you think that your culture is better than other cultures?
	actical Application: In situations where you come into contact with different cultures or people vertical and to get along with them?
	ubric:
	Ideas/feelings shared poorly/satisfactorily/well =/3 Reasons for ideas were stated poorly/satisfactorily =/2 on every line. Answer all the questions. Teasons for your ideas and feelings.
<u>9</u>	on every line. Answer all the questions. CONTENT Criticals
	reasons for your ideas and feelings. <b>not convent</b>

### **Comparing Neanderthals to Modern Humans**

Scholars' interpretations of the lives of Neanderthals have changed over time—from mere brute beasts to almost as evolved as modern humans. Even what to call Neanderthals (or Neandertals) is in dispute: Homo neanderthalensis or Homo sapiens neanderthalensis. We now believe that Neanderthals did not contribute to our gene pool, but it cannot be denied that, with around 99.9% genetic similarity, they were very similar to us. For about 5000 to 10,000 years, humans (Cro-Magnons) and Neanderthals





# IS THIS PLAGERISM?

Who really named the Neanderthal? You might be surprised to know that Joachim Neumann, a 17<sup>th</sup> Century minister, indirectly named the Neanderthal. One particular place Neumann enjoyed walking came to be known as the "Neander Thal" in German (the "Neander Valley" in English). Because he was famous for writing many Christian hymns, people named the valley after him when he died. However, the valley was given the Greek name "Neander" that Joachim Neumann had made for himself that was based on the meaning of his last name—"new man."

When fossils were found in the Neander Valley in 1856, they were called "The Neander Thal Man." In 1864, William King coined the name *Homo neanderthalensis*. However, two years later Ernst Haeckel suggested the name *Homo stupidus*: "stupid man." Some scholars have proposed we use the name *Homo sapiens neanderthalensis* because they believe that Neanderthals were a subspecies of modern human. (This is the reason that modern humans are called *Homo sapiens sapiens* by some scholars.)

So who really named the Neanderthal? It seems many people have tried to! At least Neanderthals were never called *Homo sapiens stupidus*: "stupid wise man!"

Information taken from http://www.talkorigins.org/faqs/homs/spelling.html

#### Neandert *In*al or Neandertal?

The first such fossil was discovered in 1856 in the Neander Thal, or "Neander Valley" in German, and became known as "Neanderthal Man". In 1904, German spelling was regularized to be more consistent with pronunciation, and "thal" became "tal". In 1952 Henri Vallois proposed that it should be spelt as the Germans spell it, and the "-tal" spelling has become widely used since then. The "-thal" spelling persists most strongly in England.

'Neanderthal' can be pronounced with either a 't' or a 'th' sound - both are acceptable and widely used in English. The German pronunciation, however, has always been 't' (German has no 'th' sound).

None of this affects the taxonomic name of the Neandertals. William King proposed the name *Homo neanderthalensis* in 1864. Since then, opinion has fluctuated as to whether they should be considered *Homo sapiens neanderthalensis* (a subspecies of *Homo sapiens*) or a separate species, *Homo neanderthalensis*. For the first half of the 20th century, they were usually considered a separate species. For the last few decades they have usually been considered a subspecies, but recently *Homo neanderthalensis* has been gaining in popularity again. In either case, the 'h' must remain in the name, because the laws governing biological nomenclature forbid changing the spelling.

It is fascinating to think that, but for a matter of historical chance, we might now be classifying Neandertals as *Homo stupidus*! (Or, even stranger, *Homo sapiens stupidus*: "stupid wise man".) Ernst Haeckel created that name in 1866. Fortunately for the Neandertals, who have a bad enough image problem as it is, King's name was published two years earlier and hence has priority. (Wolpoff and Caspari, *Race and Human Evolution*, 1997, p.271)

The Neander Tal was named after a minister, Joachim Neumann, who used to take walks there in the late 17th century. Neumann composed many hymns, some of which are still sung today. Wanting to use a Greek pseudonym, Neumann, whose name means "new man", chose "Neander", a translation of his name into Greek. By a strange coincidence, the "New Man Valley" named for him after his death gave its name to a new type of human that was discovered there.

Copied from <a href="http://www.talkorigins.org/faqs/homs/spelling.html">http://www.talkorigins.org/faqs/homs/spelling.html</a>