The Viking Sword NOTETAKING GUIDE

By Nova/National Geographic

1.	What is the name of the special sword used by the Vikings?
2.	T F It's not all about a sharp edge on a sword.
3.	What kind of steel was the Ulfberht sword made of?
4.	What weapons did most Viking warriors use?
5.	What combination of properties gave the Ulfbert sword advantage?
	, and
6.	Where are many Viking swords found?
7.	(7:38) What does the blacksmith mean when he says, "It's not that I can't do anything else, but
	can't do anything else (with emphasis)?
8.	Is the blacksmith making a print first?
9.	What do you think reverse engineer means? Take an old sword and figure out how to make it
10.	What needs to be added to iron (Fe) to turn it into steel?
11.	What else can weaken the iron or steel?
12.	What was the old-fashioned way to remove slag?
13.	What did the Professor Williams discover?
14.	What is the name of the high-carbon steel discovered?
15.	What property did the Ulfberht sword have that was good for the style of fighting?
16.	What does carbon do to iron?
17.	What else does the blacksmith add?
18.	Why?
19.	Why is the crucible sealed?
20.	How hot does the oven need to get?
21.	Why does it need to get to that temperature?
	What other steel used crucible steel?
23.	How could the Vikings travel to Iran?

24.	Where was the oven discovered that the blacksmith used?
25.	What is the name for the metal that came out of the crucible?
26.	How long will the blacksmiths need to hammer the ingot into a bar?
27.	What force did the test put on the tested steels?
28.	What does the microscope show?
29.	How many hours did they hammer the steel?
30.	What changed about the shape of the Ulfberht sword.
31.	Why did the old blacksmith put the name Ulfberht on the swords?
32.	What is the indentation down the center of the blade?
33.	T F The fuller allows for longer blades which are lighter in weight.
34.	What is the riskiest part of the sword making?
35.	What does the blacksmith quench the blade in?
36.	What did the other professor find?
37.	How long does it take to polish a sword?