

<p>The architect for Harald Bluetooth</p>	
<p>Respective blueprint</p>	<p>Architect of King Harald Bluetooth</p>
<p>Description</p>	<p>The lesson is a concentrated lesson where the students get a brief introduction to the world of the Vikings, King Harald Bluetooth and build a model of one of King Harald's 5 ring fortresses</p>
<p>Learning Objectives</p>	<ul style="list-style-type: none"> -Students learn about the world of the Vikings -Students learn/repeat knowledge about the circle, radius, diameter, Pi, area, and perimeter
<p>Related curricular subject(s)</p>	<p>Primarily history and mathematics</p>

Prerequisites / preparatory actions for teachers

The word Viking is often misused or misunderstood. Viking was not a population. It was something you went. The word Viking means something similar: a person from the bay. Vikings are often associated with assault, plunder, and theft, though they were much more than that. They were skilled craftsmen, merchants, indeed their whole society and outlook on life was far away from ours - and yet! In the Scandinavian countries, traces of the Vikings can be found close by. 4 of the weekdays in Denmark, Sweden and Norway are still named with a Norse connection e.g ... Thursday is still the day of the God Thor.

The Nordic influence is not only in the Scandinavian countries, but also in the countries they travelled to, invaded, and settled in. Thus, many words/city names in English and French are of Norse origin.

The Viking Age has become increasingly popular, partly through portrayals of the period by television and literary series.

The course is based on King Harald Bluetooth, who subjugated Denmark and

Norway as king in the period 958-987 AD. He was the first Danish king to be baptized...more as a practical measure not to give the German-Roman Otto the 1st a religious reason to seek conflict with the pre-pagan Danes. King Harald Bluetooth was a very Entrepreneurial king, who set many large building projects in motion beyond the 5 ring fortresses we know today.

Bridges, boundary walls and an impressive tomb for his mother and father that filled an area the size of 20 football pitches and was surrounded by a 1440-metre-long palisade.

It is an exciting period, where it can be difficult to limit oneself, therefore we have chosen to focus on the Viking ring fortress and mathematics or rather geometry with a circular focus.

<p>Prerequisites / preparatory actions for students</p>	<p>The course assumes that students know how to use a compass.</p> <p>Otherwise, it is recommended to spend a lesson practicing drawing circles and experimenting with the instrument.</p>
<p>Age of students</p>	<p>From 12 years old</p>
<p>Duration</p>	<p>2 hours (120 min)</p>
<p>Level of difficulty</p>	<p>Medium to difficult.</p>
<p>Step by step description of the tasks</p>	<p>1: Introduction to the Viking Age and Harald Bluetooth (see pictures below)</p> <p>2. Model building of the Viking fortress (Fyrkat) (using the corresponding blueprint)</p> <p>3: Evaluation and self-control of the measurements on the model</p> <p>4: Suggestions for further work</p>

Harald Bluetooth Danish King 958-987

The name Bluetooth is said to be because he had a blue/black tooth.

He was the first Danish King to be baptized

He was King of Denmark and Norway

Killed in a riot started by his own son!



Figure 1 The Jelling runic stone is considered the birth certificate of Denmark

THE KING WHO LOVED GEOMETRY

The king who has conquered ALL of Denmark and Norway set in motion major construction works: the wall called "Dannevirke" against Germany, the 760 meter long and 5 m wide bridge over Raving Enge, 5 ring fortresses, the largest of which measures 240 m in diameter and a large tomb the size of 20 football fields for his mother, Queen Thyra and father: King Gorm the Old.



" Vikings theme" a sheet for inspiration

Question	Content could be	Activity could be
Who were they ? - the humans	What would it be like to be: <ul style="list-style-type: none"> - A man - A woman - A child - Clothing - Roles - 	<ul style="list-style-type: none"> - Make viking clothing - Make small viking dolls with each gender equipment/clothing - Find pictures
Where did they live?	The countries <ul style="list-style-type: none"> - Their houses 	<ul style="list-style-type: none"> - Study different types of houses and the interior

Question	Content could be	Activity could be
		<ul style="list-style-type: none"> - Build model of their houses in clay, sticks etc.
<p>What did they do?</p>	<p>The life of:</p> <ul style="list-style-type: none"> - A farmer - A merchant - A craftman - The workers around the house - As a slave 	<ul style="list-style-type: none"> - Try different typical viking craftsmanship - Roleplaying daily life
<p>"To go viking": what is that?</p>	<ul style="list-style-type: none"> - The travels - The attacks - The conquests 	<ul style="list-style-type: none"> - Produce maps of their journeys - Find Norse words, names of places or cities
<p>How was their religion?</p>	<ul style="list-style-type: none"> - Norse mythology - The Gods, like Odin, Thor, Loke, Freja, Tyr... 	<ul style="list-style-type: none"> - Read Sagas or tell them - Watch the Valhalla cartoon
<p>The Runes and how to write them?</p>	<ul style="list-style-type: none"> - The futhark (Runic alphabet) - The magical runes 	<ul style="list-style-type: none"> - Try to write their name with runes

Question	Content could be	Activity could be
Why were their ships so important?	<ul style="list-style-type: none"> - Ship types - Importance of keel 	<ul style="list-style-type: none"> - Build small viking ships - Keel or not keel-experiments
What did they eat?	<ul style="list-style-type: none"> - Their bread - Fish - Meat - Porridge - 	<ul style="list-style-type: none"> - Try to produce a simple viking meal on a real bonfire - Porridge, butter, bread and a soup.



Invitation to go “Viking”

WHERE ?

Denmark, Norway and Sweden. From time to time we´ll visit England, France, Spain, Italy, Iceland and Greenland and Vinland (America)

When?

From 700 AD to 1066

We do worship the traditional Norse religion which is centered around Gods like Odin, Thor, Loke, Tyr and Feya,



DRESSCODE:

WOMAN: HARNESS DRESSES WITH A WEIRD ONE UNDERNEATH. A SASS KIND OF SLIP. IN FRONT OF THE DRESS, WOMAN WILL WEAR BEAUTYFUL FIBERS AND GLASSPEARLS OR AMBER TO DECORATION

MEN: WOOLEN TROUSERS, A TUNIQUE – AN LONG SHIRT WITHOUT BUTTONS AND A CAPE. BOTH MEN AND WOMAN ARE ALLOWED TO WEAR BEAUTYFUL BELTS. KNIVES, SWORDS, AND AXES ARE ACCEPTED.

HELMETS WITH HORNS ARE FORBIDDEN!

Remember! As a well-behaved Viking we all know Saturday is washing day and it will be appreciated you´ll show up clean washed...

Parking: If you´ll arrive in your longboat, they need be towed ashore at the Great Hall near the pit houses.

RSVP: To Harald Bluetooth. Please make sure you´ll write in the right Futhark (Runic letters)