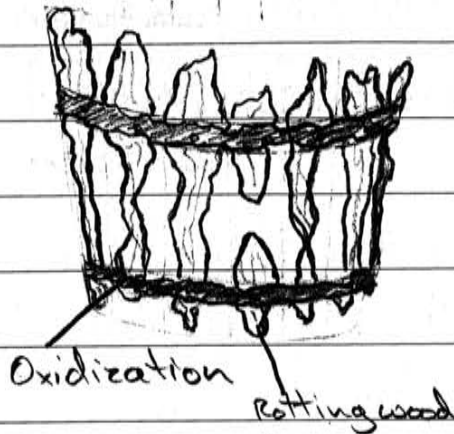


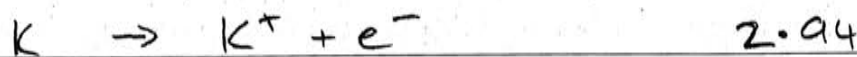
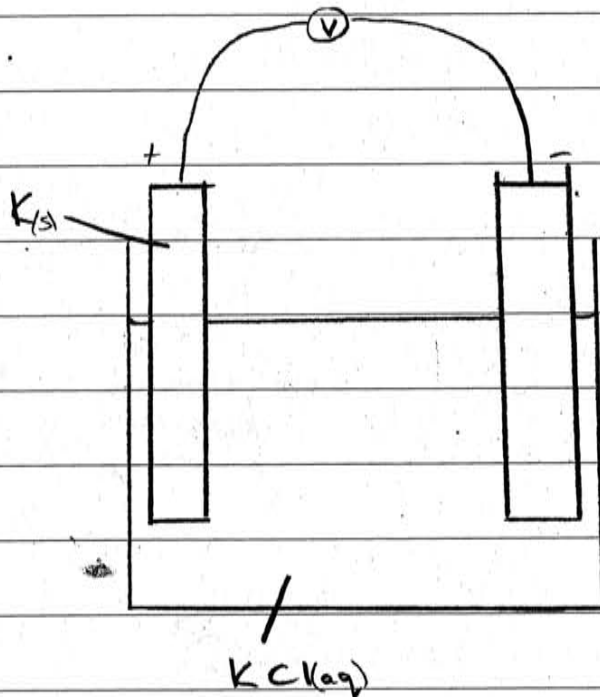
Start here.

a)



The marine environment would have caused the metal rims around the artefact to oxidise, and would have caused the wood to rot and begin to break down.

b). i



ii

c). The ~~composition~~ properties of a steel is determined by its composition.

Steel 1 has a lot of Fe and not much C. Therefore it would be a softer, heavier steel.

Steel 2 still has a lot of Fe but has more C than steel 1, therefore steel 2 will be stronger than steel 1.

- Steel 3 - More C = stronger

- Steel 4 - less Fe = lighter

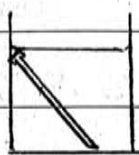
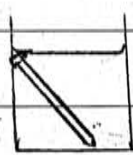
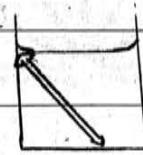
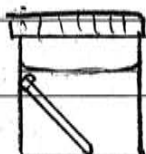
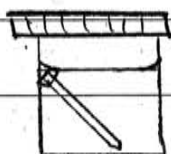
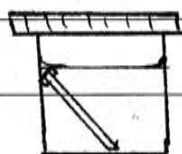
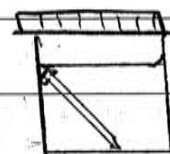
- Cr = strength

- good for weapons.

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Start here.

d) i.

Warm
No saltWarm
SaltCool
No saltCool
SaltWarm
No saltWarm
SaltCool
No saltCool
Salt.

① prepare

8 containers, each the same size with the same amount of water in them and the same type of nail in them
~~4 with air tight lids, 4 with no lid~~

② set up as shown above ~~and put~~ ^{and put} containers labeled 'warm' put in a warm spot, containers labeled 'cool' put in the fridge.

③ Leave for one week.

④ compare results.

ii) in a marine environment temperature is reduced the deeper into the water you go. A ship wreck closer to the surface of the water would be warmer than a wreck several kilometres deep and would therefore corrode at a faster rate.

c) To ~~restore~~ conserve a wooden artefact, the artefact needs to be continuously flushed with fresh water to ensure that all the salts and dissolved solids from the sea water is removed. After the artefact has been rinsed for a long time a resin can be coated on it to fill the gaps in the wood and hold it together. Although this technique takes a long time to conserve a wooden artefact, it is a reliable and suitable technique.

Copper artefacts can be restored by using electrolysis. Electrolysis is a very reliable and suitable technique for smaller copper artefacts but can begin to become ~~tricky~~ tricky and expensive for larger copper artefacts.

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