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Science at the Roman Baths

Surface area and volume

Different temperatures

Different temperatures
Different pools have different temperatures. Note them down below:
Sacred Spring
Water entering the Great Bath
Great Bath
Why doesn't the temperature of the water stay constant once it leaves the Spring?
Surface area
Go to the Great Bath (point 3 on your map). You are going to roughly measure the surface area of the Great Bath. Count how many strides it takes you to walk the length and width. Assume 1 stride = 1 metre, then multiply your numbers together to get surface area.
Length strides = metres
Width strides = metres
Surface area = metres squared (m ²)
What effect will the surface area of a body of water have on how quickly it loses heat? Which parts of the Roman Baths will lose heat quickest?
Volume
Find out the depth of the Great Bath
Depth = metres.
Now you know the depth, you can find out the volume of water in the Great Bath – just multiply your value for surface area by the depth of the Great Bath.
Volume= metres cubed (m ³)
One metre cubed is the same as 1000 litres. How many litres of water are contained in the Great Bath?

Litres = volume in metres cubed (m³) x 1000 = _____