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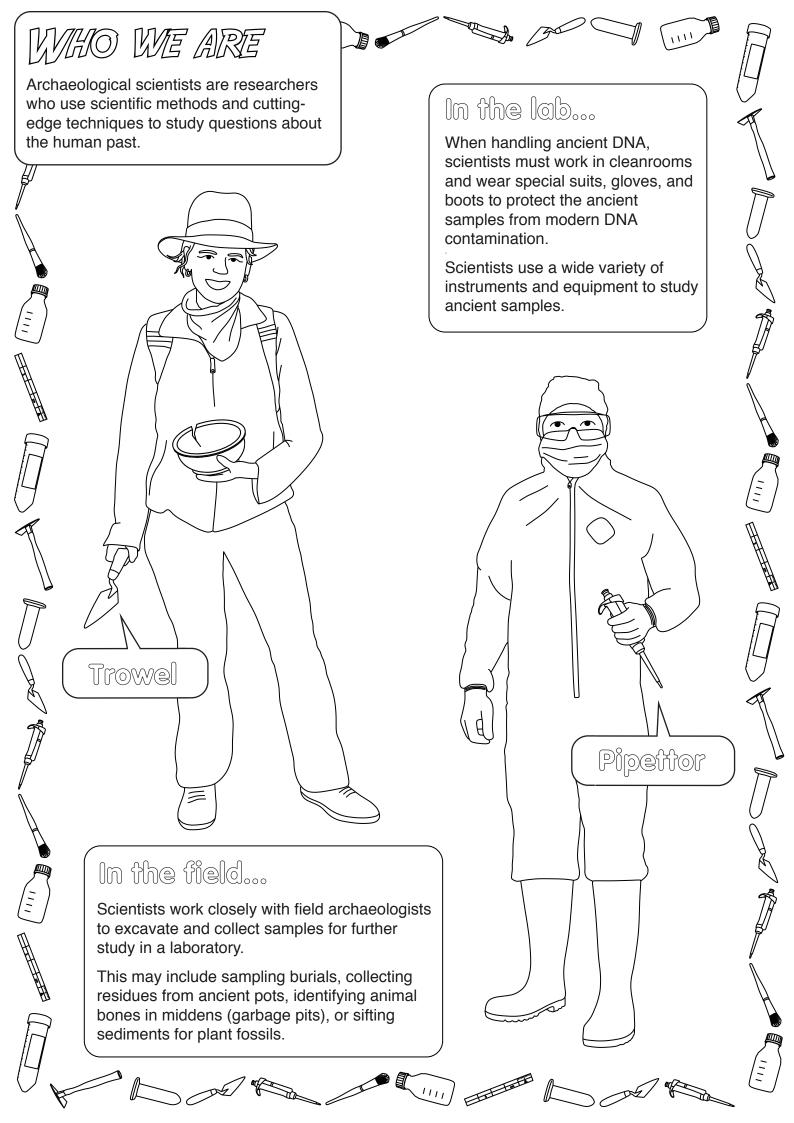
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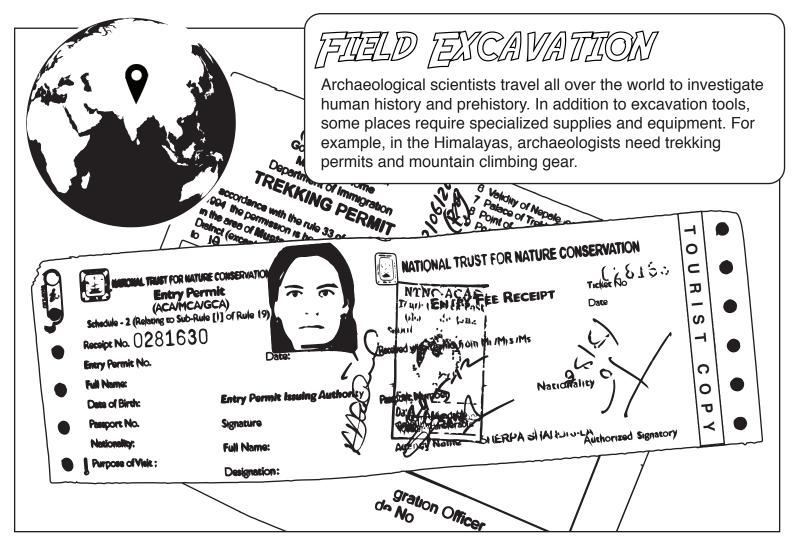
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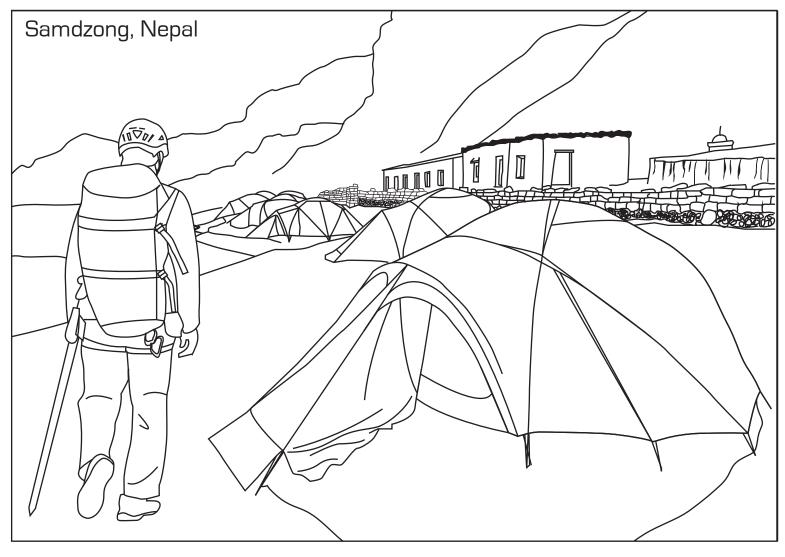
This coloring book was produced as part of a training course in scientific illustration.

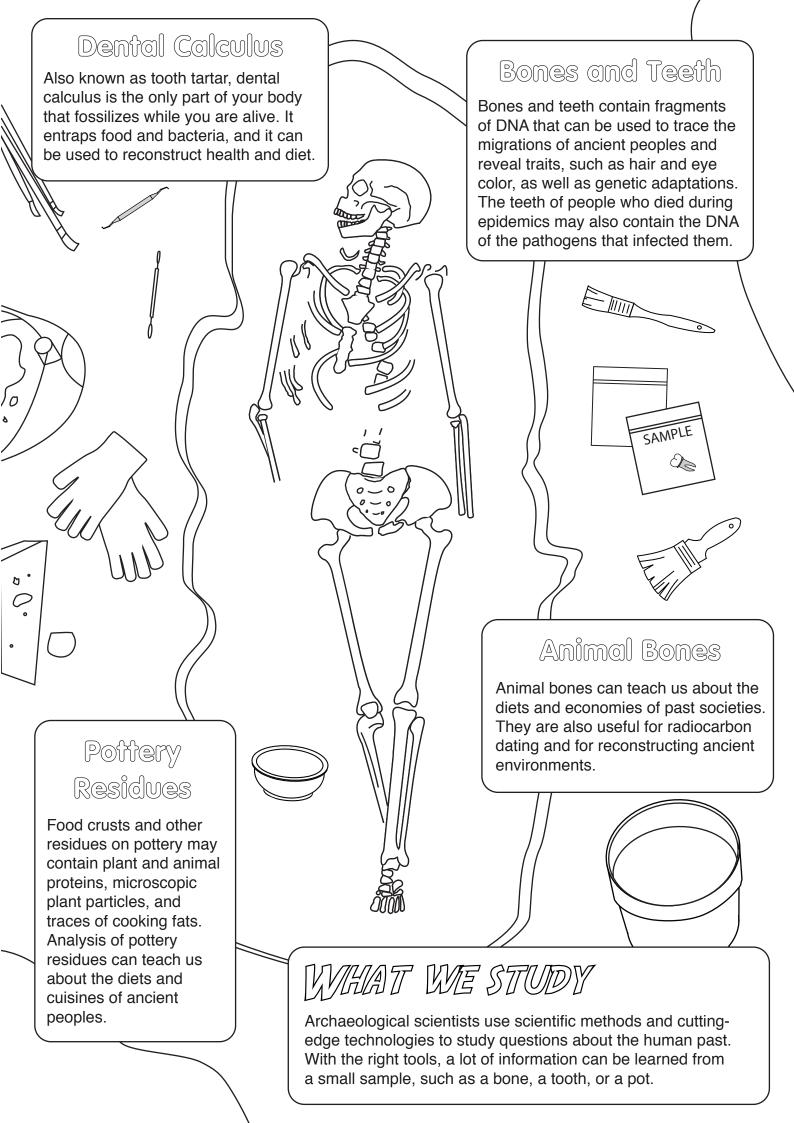


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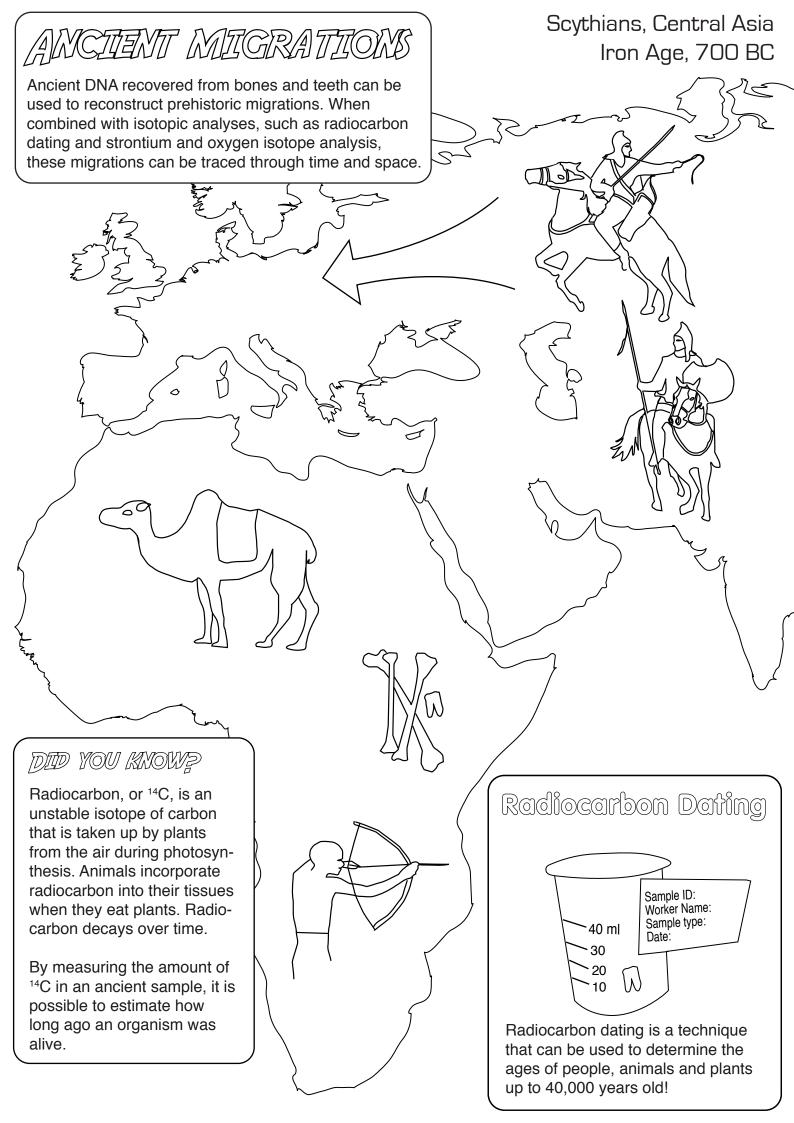


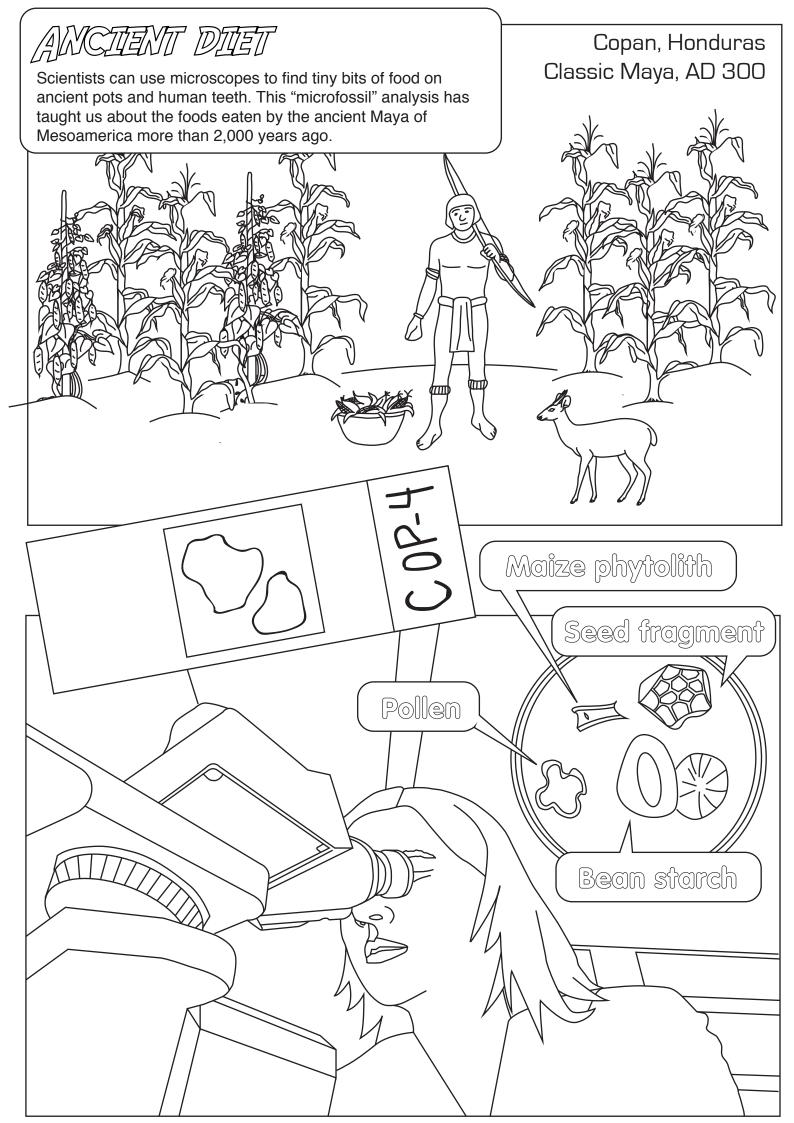


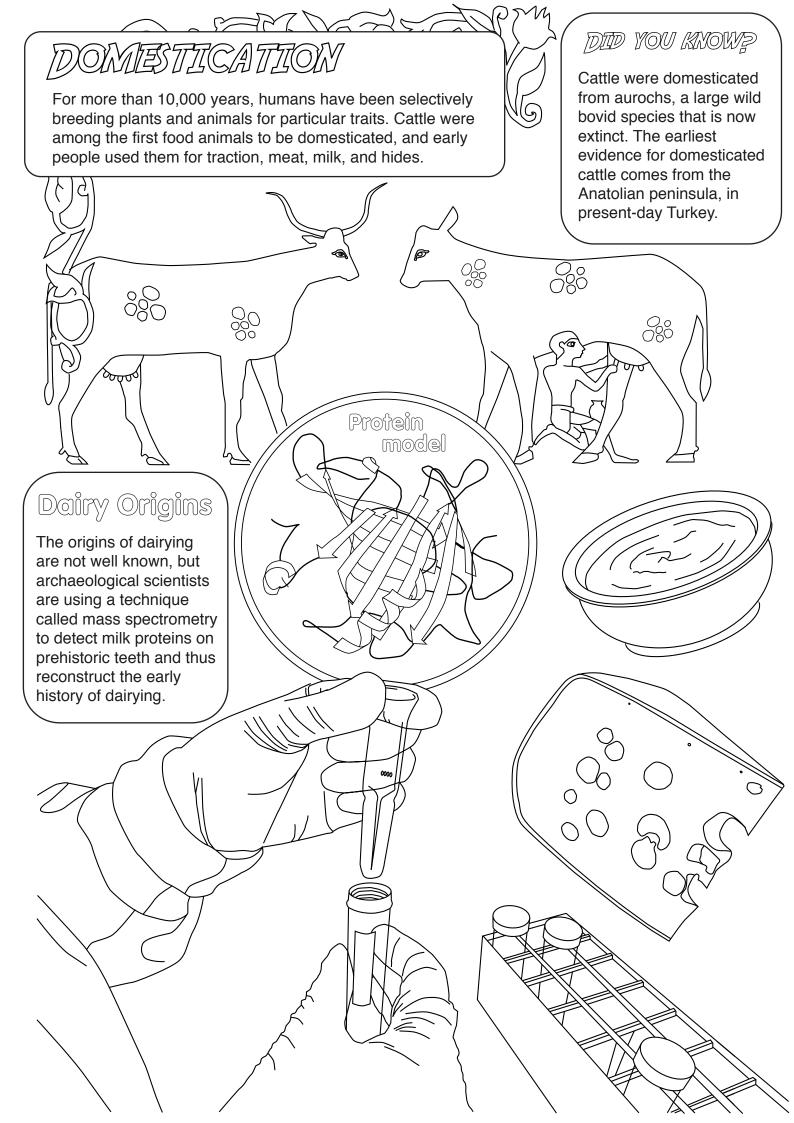


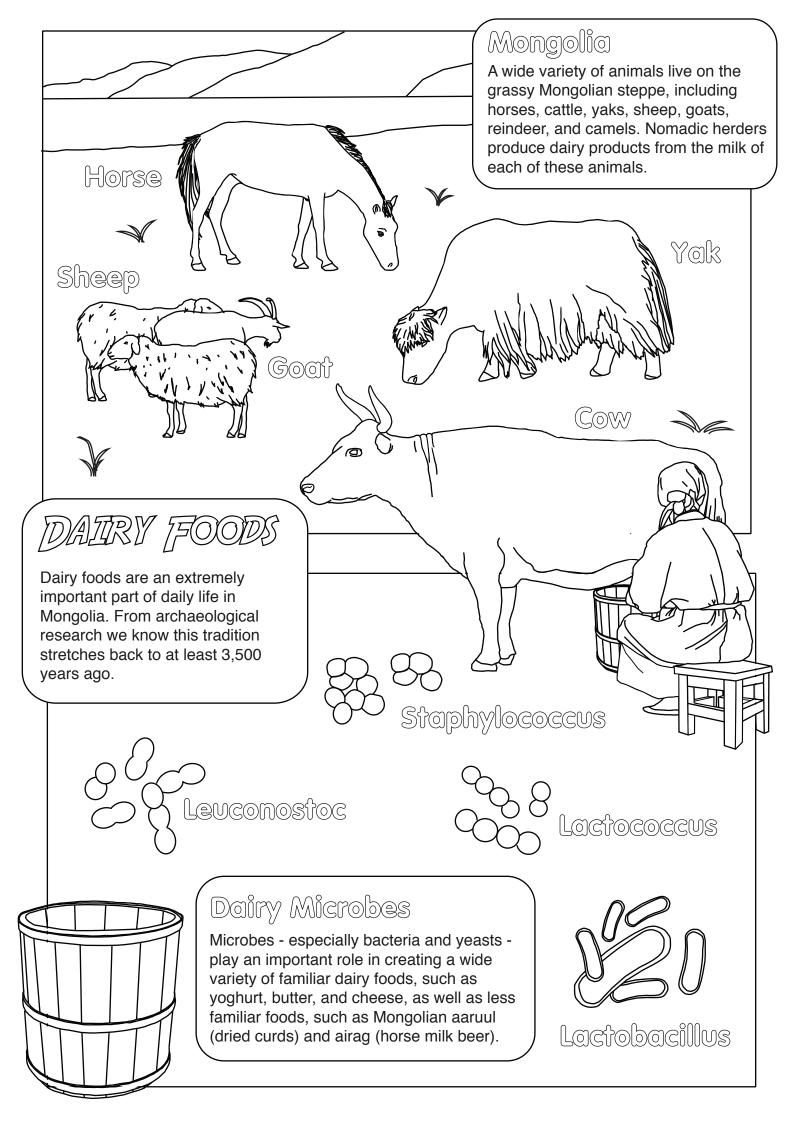


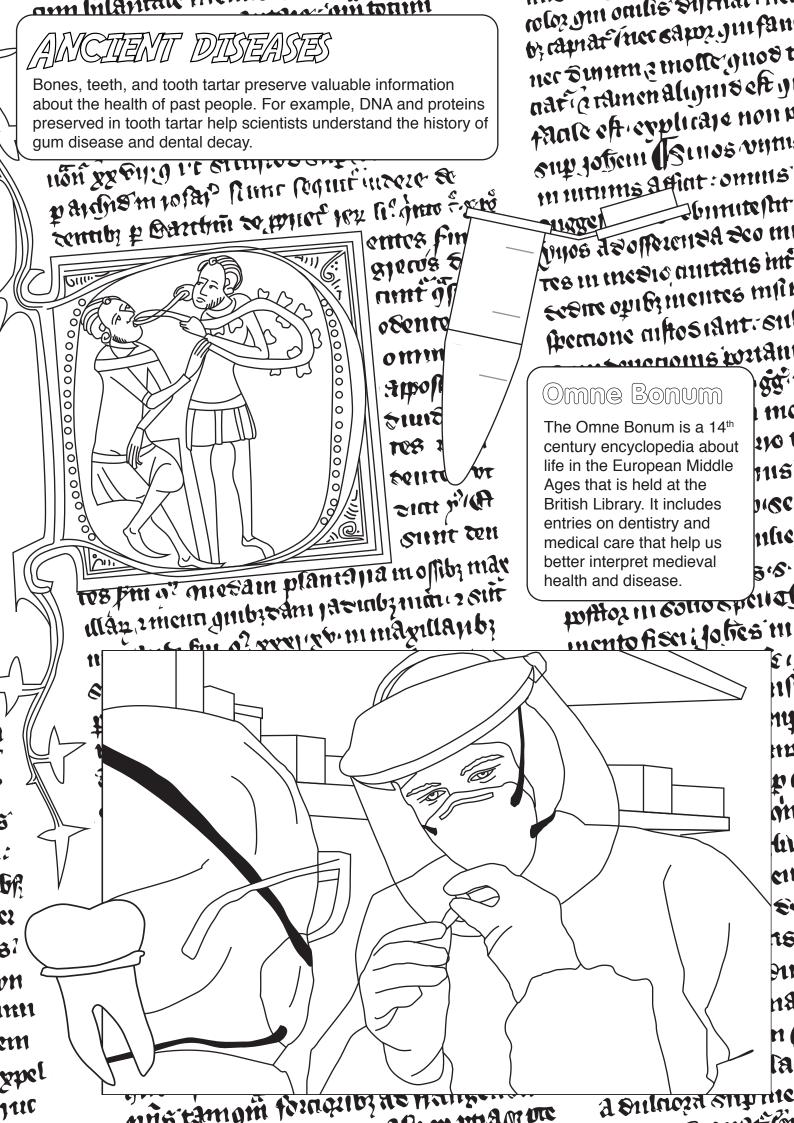


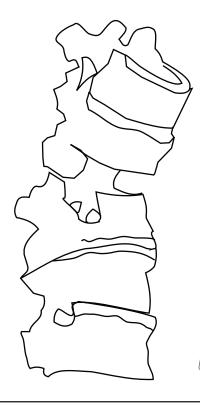






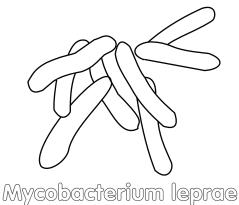


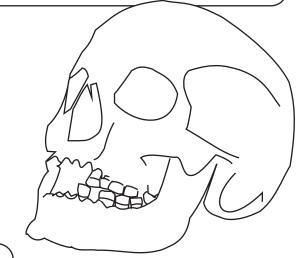




TUBERCULOSIS & LIEPROSY

Tuberculosis and leprosy are caused by related bacteria: *Mycobacterium tuberculosis* and *Mycobacterium leprae*. Both can infect bone, and traces of DNA left behind in the skeleton are helping scientists reconstruct the history of these ancient diseases.



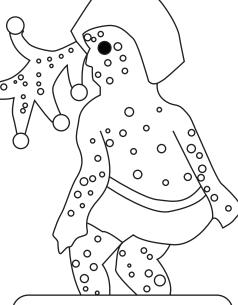


COCOLIZILI

An unidentified epidemic - named *cocoliztli* by the Aztecs - killed 60-90% of the population of Mexico between AD 1545 and 1550. Recently, DNA from the pathogen *Salmonella enterica* Paratyphi C was identified in the teeth of epidemic victims.

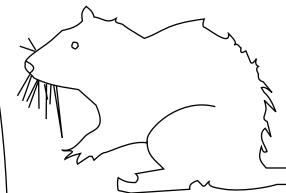


Salmonella enterica



Dr. Schnabel

Doctors treating plague victims in the 17th century wore bird-like masks to protect them from "bad air."

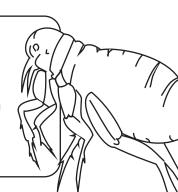


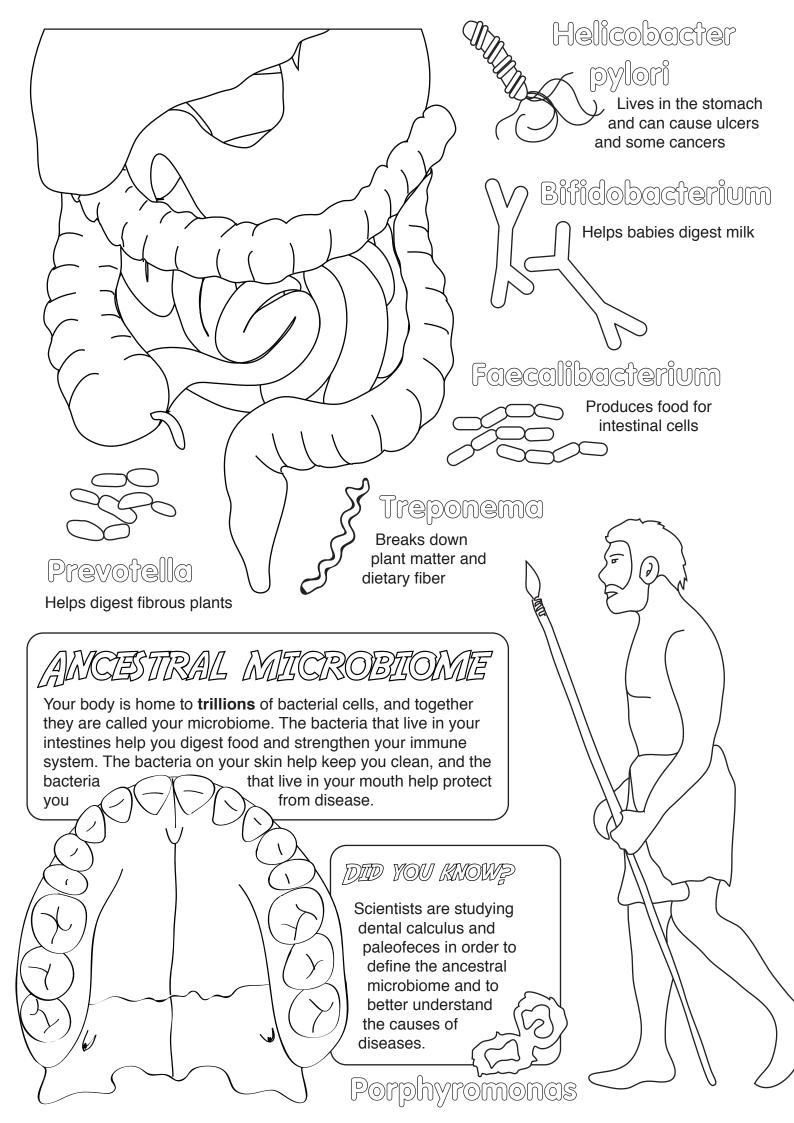
Codex en Cruz

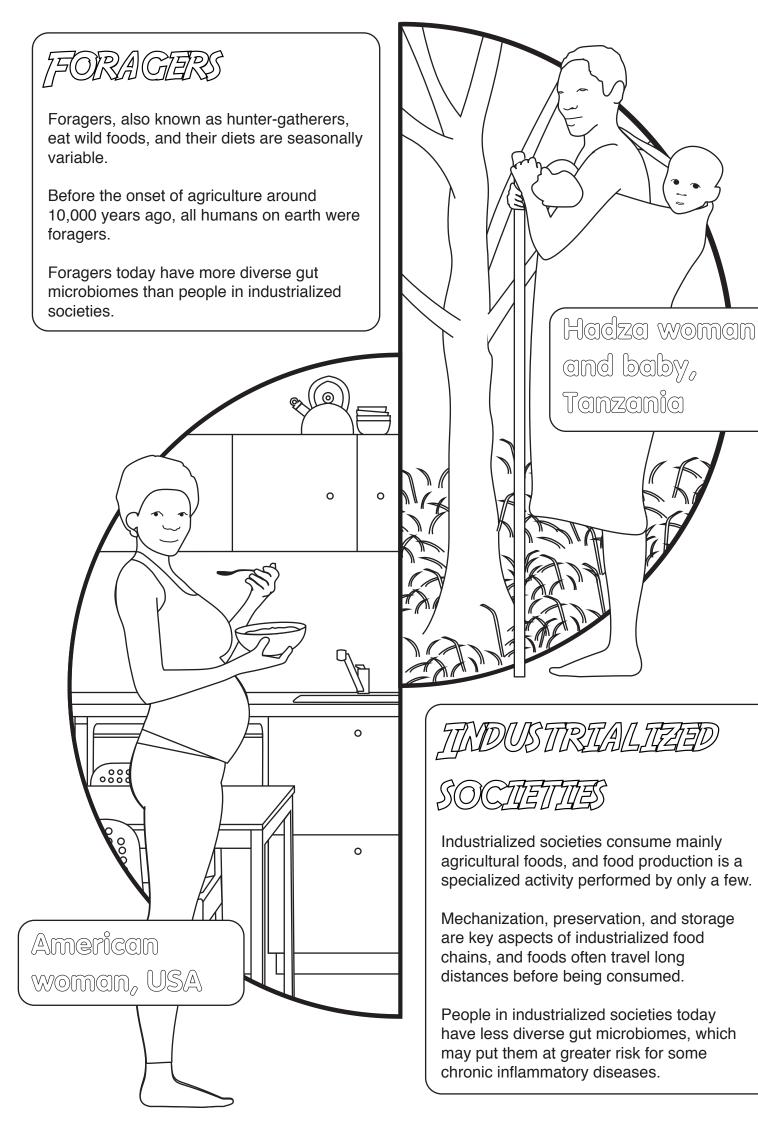
This Aztec document dating to the 1550s depicts the symptoms of cocoliztli: fever, rash, and severe bleeding.

PLAGUE

Plague is caused by the bacterium *Yersinia pestis*, which spreads by infecting fleas that live on rats. Humans bitten by these fleas develop bubonic plague. Plague was the cause of the Black Death (AD 1346-1353) that killed half the people of Europe.









CHAFOLOGICAL SCITE

Coloring Book

Learn how archaeologists and scientists work together to answer questions about the human past! Join us as we explain who we are and what we study, from the origins of humans to medieval plagues. Learn about ancient migrations and radiocarbon dating. See how scientists reconstruct ancient diets from microscopic plant remains. Unearth domestication fun facts and the science behind dairy foods. Explore ancient diseases and epidemics and discover the ancestral human microbiome.

Produced by scientists at the Max Planck Institute for the Science of Human History for the Long Night of Science 24 November 2017, Jena, Germany