



Rome

From Origins to Empire

Rhea Silvia and Mars

- Romulus and Remus were sons of the princess Rhea Silvia and the god Mars.
- They were abandoned at birth by their evil uncle, the usurping king of Alba Longa.

Mars and Rhea Silvia,
whose name means
“Guilty of the Forest”



Romulus and Remus

- A *she-wolf* took care of them until they the shepherd Faustus found them.
- They overthrew the king of Alba Longa and decided to build their own city.





FARNESI CARD PAULI III PONT MAX NEPOT
IN CAPITOLIO P

IVAE PRIMAE SEPTENTRIONIS STYRIAE SINGULIS REGIBUS
IN URBE SEPTENTRIONIS SEPTENTRIONIS SEPTENTRIONIS
CANTONS AD LATVS INFRA ALPES ALBI SEPTENTRIONIS
ET ALIIBUS PARTIBUS SEPTENTRIONIS AD SEPTENTRIONEM
LACUS RHEODENSIS SEPTENTRIONIS SEPTENTRIONIS SEPTENTRIONIS
ADSPICIAS ORBI SECVLA QVAE SEPTENTRIONIS

MARMORA P
ATQVE MA
IN MOTO MA
POLITICIS DI
ALTUS SEPTENTRIONIS
OBERVEZA SEPTENTRIONIS
LAVELLE SEPTENTRIONIS
QUIS MODO AL
PAVLO INVEN

Romulus and Remus

- disagreed over where to put the citadel
 - the Palatine Hill or the Aventine Hill.
- They settled it with a contest called an *augury*.
- Augury: A contest to see who could see the most birds.
 - Remus saw 6, Romulus 12. The gods had spoken...



The Murder of Remus

- Victor in the augury, Romulus becomes king and names the city Rome.
- He begins to build Rome's walls.
- Remus jumps over a wall right in front of him.
- Romulus kills him on the spot.

Romulus Murders his Brother



Thought Question #13

- **13.A:** Why choose a king based on the augury?
- **13.B:** Is Romulus' reaction to Remus jumping over his wall too extreme, or was Remus asking for it? Explain.

Due tomorrow, at the start of class.

Agite Primo: Think, Pair, Share

- Imagine you must live *without running water*.
- You must also **grow your own food**.
- **What would you need to do to survive? How much work would you have to do to get water?**
- 99% of people in the history of humankind have had to make do without, so you can figure it out, right?
- Discuss with your elbow buddies for three minutes.

Public Works Project

- Roman soldiers built the roads.
- Roman soldiers were often not from Rome, but from one of its conquered neighbors.
- They used Greek math and Roman concrete.
- They are still in better shape than Michigan roads in April 2016!



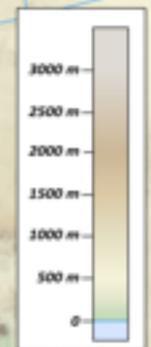


THE ROMAN EMPIRE IN AD 125

- Imperial frontier
- Frontier wall
- COLCHIS Roman client state
- Border of the client states
- NORICUM Roman province
- Province boundaries
- Imperial capital
- 19 Legionary base
- Other cities and towns
- Lugdunum Provincial capital
- ⚓ Major naval base
- Main road
- Gepidae Tribe

- Legions deployed (AD 125):**
1. VI GEMINA
 2. II AUGUSTA
 3. XX VALERIA VICTRIX
 4. VI VICTRIX
 5. IX HISPANA
 6. XXX ULPIA VICTRIX
 7. I MINERVA
 8. XXII PRIMIGENIA
 9. VII AUGUSTA
 10. X GEMINA
 11. XIV GEMINA
 12. I ADUATRIX
 13. II ADUATRIX
 14. IV FLAVIA FELIX
 15. VII CLAUDIA
 16. XII GEMINA
 17. I ITALICA
 18. XI CLAUDIA
 19. V MACEDONICA
 20. XV APOLLINARIS
 21. XII FULMINATA
 22. XVI FLAVIA FIRMA
 23. IV SCYTHICA
 24. III GALLICA
 25. VI FERRATA
 26. III CYRENAICA
 27. X FRETENSIS
 28. II TRAIANA
 29. XXII DEIOTARIANA
 30. III AUGUSTA

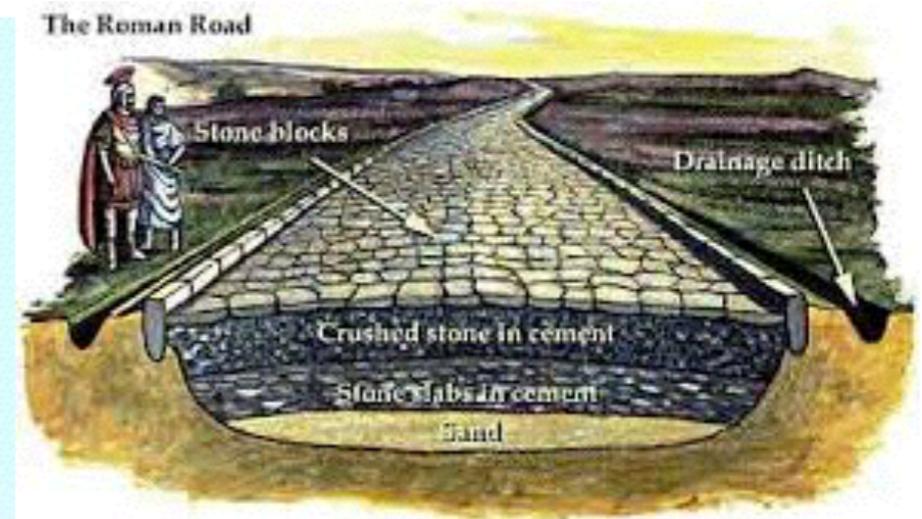
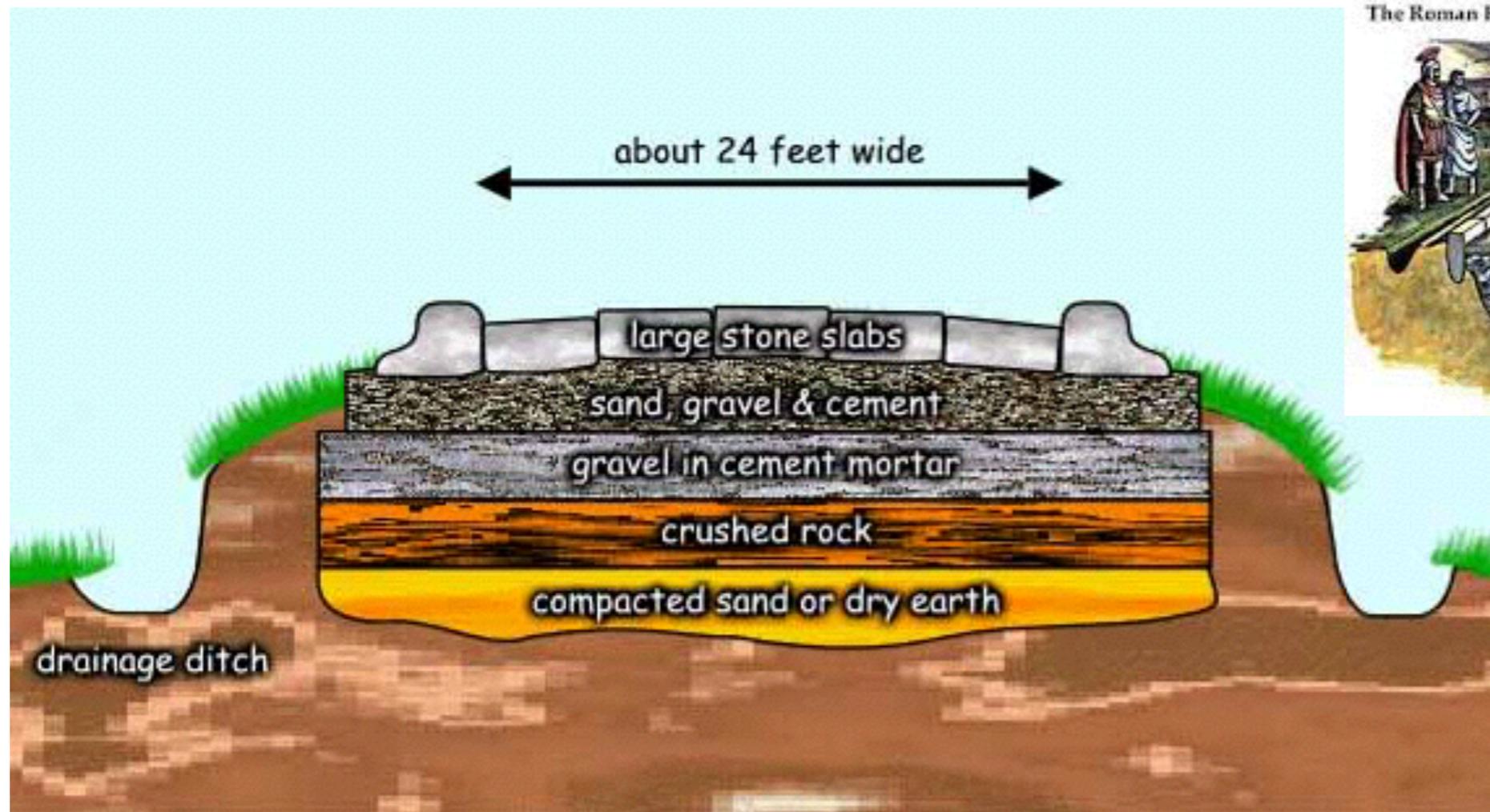
Scale 1 : 8 000 000
 0 250 500 750 1 000 km
 Lambert azimuthal equal-area projection / ETRS 89 datum





1. What do you observe about the shape and materials used to make these roads?
2. Imagine you are a civil engineer, and you are making a road to last 2,000 years.
 - What problems would your road face?
 - What sort of math might you need?

Thought Questions # 14

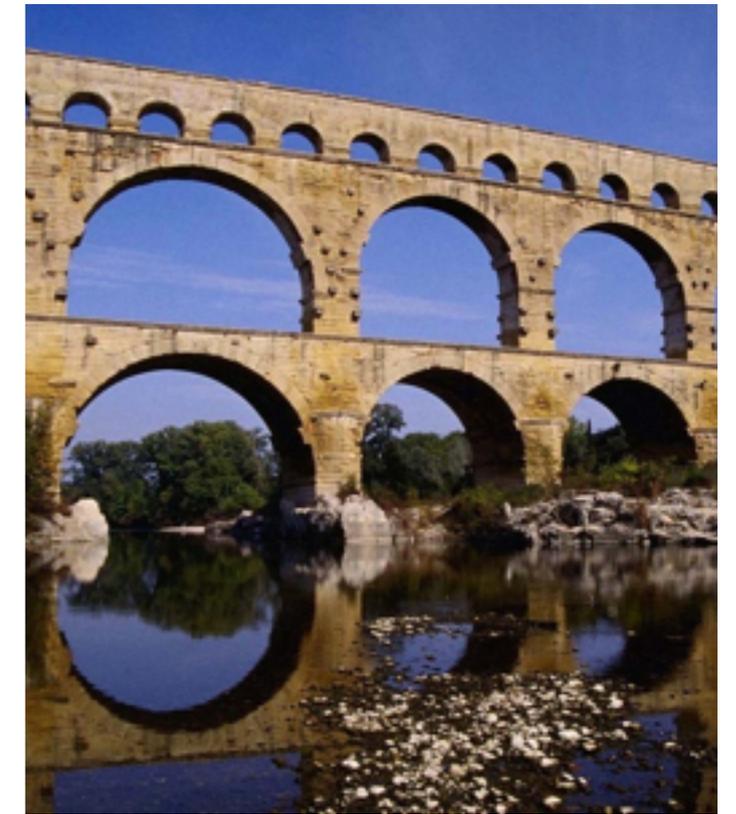
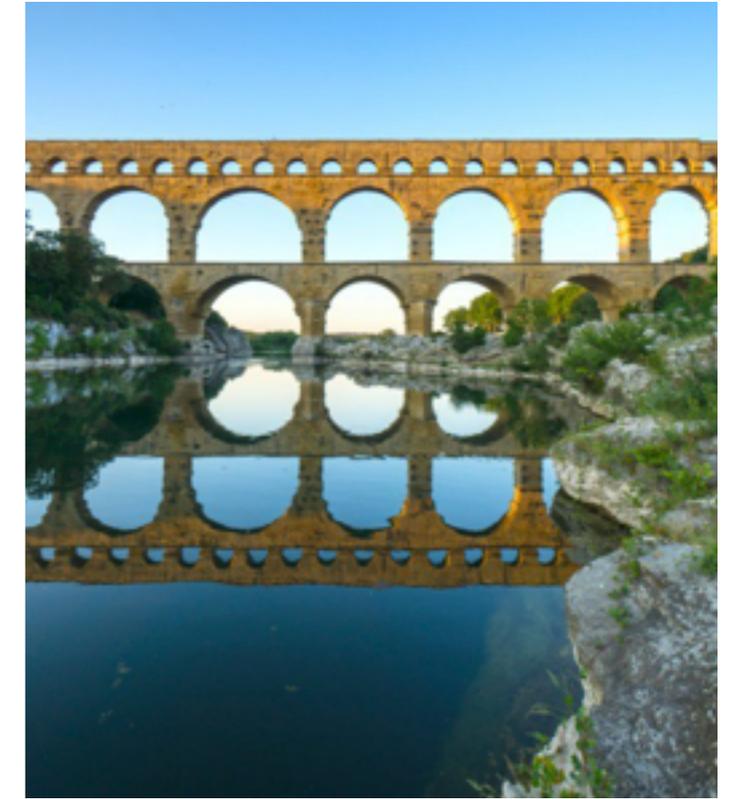


Aqueduct Engineering

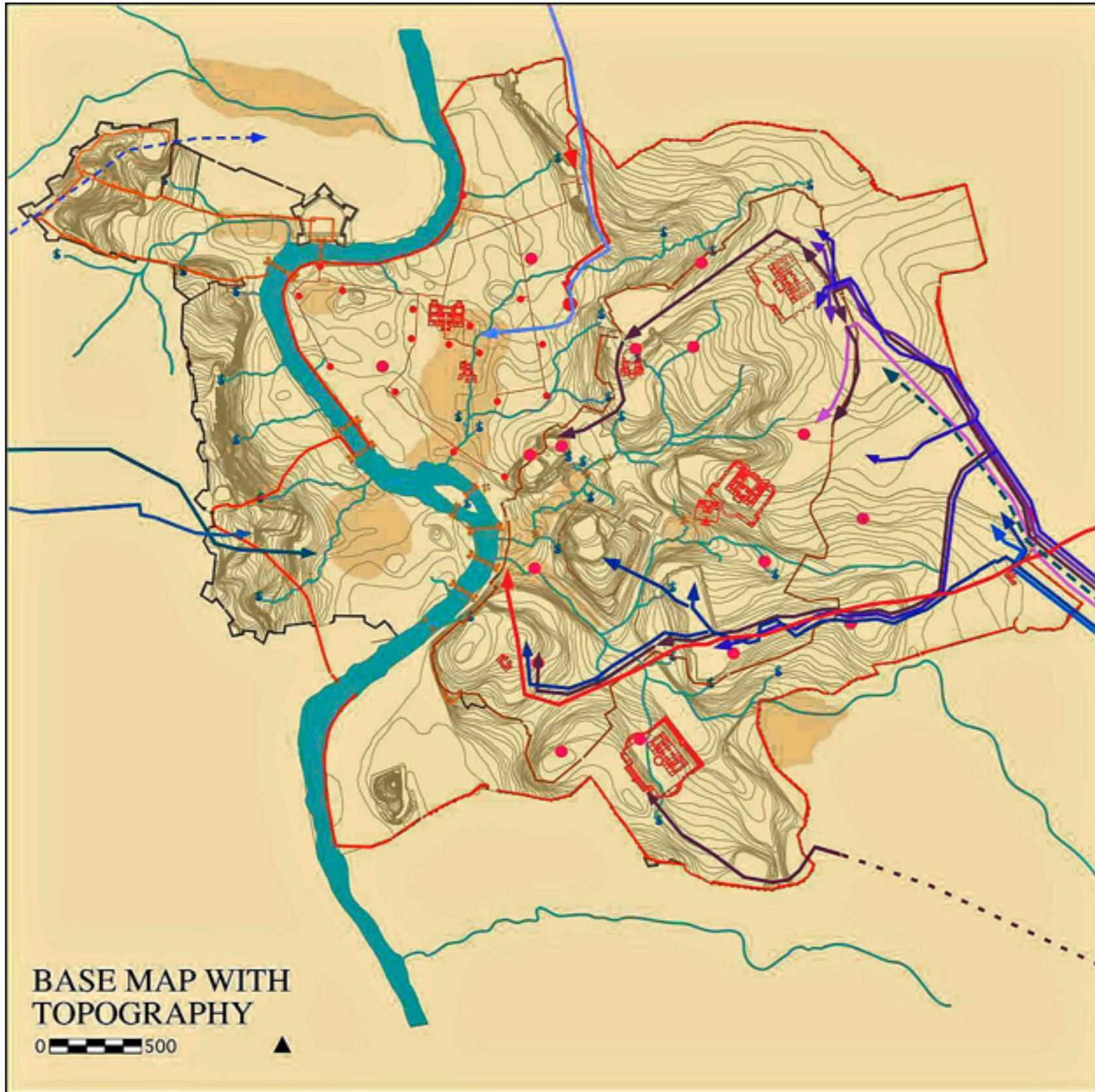
- Water flows downhill. Gravity makes that happen.
- It seems simple, but to use it involves complex math.
- Imagine you are a civil engineer and you need to get water from the highest peak of the Estrella Mountains.
- What kind of math do you need to figure out how to make sure the people of Goodyear get their water?



Rome_5.jpg: Spain, Nerja, Malaga, Andalusia, Roman aqueduct
Credit: SuperStock



Aqueducts



- Where do you think the above aqueduct is?
- **Answer:**
Central Arizona

Map of Roman Aqueducts and Hills

What have the Romans done for us?

<https://youtu.be/9foi342LXQE>