

## History Channel's Engineering an Empire: Da Vinci's World

1. After the Dark Ages. \_\_\_\_\_ lit up the world, It emerged form the devastating clouds of the black death.

2. The enterprise of renaissance engineering is the recovery of \_\_\_\_\_ knowledge.

\* Achieving such genius was a struggle as builders battled unprecedented natural disaster, church dogma, and each other.

3. This Era created a bold new sense that nothing was \_\_\_\_\_.

\*476 AD: The great Roman Empire has collapsed. For centuries, Europe is dominated by a line of **German kings** who call their domain the **Holy Roman Empire**. But by the 12th century a loose collection of Italian Republics is taking shape. Together they plan to revitalize Europe and engineer the blue print for the **modern western world**.

4. In the 12<sup>th</sup> & 13<sup>th</sup> centuries, Italy is beginning its rebirth because what's happening is that \_\_\_\_\_ is being reinstited to the Italian peninsula mainly through the Holy Roman Empire through the system called **feudalism**.

5. New Rulers of the Italian city-states emerge, they are the \_\_\_\_\_

\*Not the traditional aristocracy, not the nobles.

6. Wealth bought power and power could by \_\_\_\_\_ & architecture

\*The foundation for the Renaissance is the **city**. Everything that happens in the Renaissance from art, to architecture, engineering, literature, all depend upon the city.

7. What resource was necessary for the prosperity of Siena?

What engineering feat brought this resource to the city?

8. In 1347 the **Black Death** struck. One conservative estimate states that Siena lost over \_\_\_\_\_% of its population in just a few months.

9. In the 13<sup>th</sup> & 14<sup>th</sup> centuries \_\_\_\_\_ were the power centers of Europe.

10. **Humanism** is an interest in the \_\_\_\_\_ world

\*Florence was not immune to the Black Death. Killing half of its population.

11. **Renaissance** literally means \_\_\_\_\_ or revival.

12. The **Medicis**, one of the wealthiest families in Florence led the way to revitalize Rome and made **Florence** the new \_\_\_\_\_.

13. What was the centerpiece of this effort?

\*The cathedral is built in the 1200, but it stands without its dome until the 1400's

\*What architect takes on this feat? **Filippo Brunelleschi**

14. Where did Brunelleschi go to study? \_\_\_\_\_ What structure did he study? \_\_\_\_\_  
1420 Describe some aspects of the process to build the dome?

15. Which Brunelleschi innovation is a cornerstone of engineering today?

16. What is the single point off in the distance called

\*This allowed the concept of the Blue Print to emerge.

\*These advancements lead to modern architecture

\***Pope Pius II**: 1458- He commissioned the first attempt to construct the perfect city: Pienza

\*1492, Columbus has discovered America. The **Medicis** have been removed form power. **Savanorola** predicts doom for Florence. It comes in the Name of **Charles VIII of France**.

17. What were Renaissance architects forced to focus their attention on building?

What new weapon could destroy medieval walls?

What was the benefit of thicker angled walls?

\*These forts were called **bastions**.

18. 15<sup>th</sup> Century Italy: What former powerhouse is on the rise again?

\* When Florence goes broke. All the happening cats split for Rome.

\* When the Popes moved back to Rome in the 15<sup>th</sup> century they begin to reorganize the **Papal state**.

19. Pope **Sixtus V** and the Popes that come after him feel the need to revitalize Rome. To clean up Rome, Sixtus had all the vandals rounded up and \_\_\_\_\_.

\*When the **aqueducts** were fixed and the water returned, the population boomed. And the city expanded with new construction.

20. Many people think that it is with the Renaissance that \_\_\_\_\_ culture begins.

This period did so much to pull us out of a \_\_\_\_\_

21. For the History Channel, I'm \_\_\_\_\_