# Islam

### Part 4

# Islam's Gifts to the World

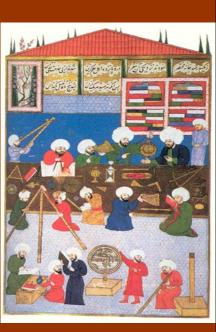
#### Islam's Gifts to the World

"Islam's major legacy to the world is the gift of its religion. That would have been quite sufficient by itself. But there are many other assets spawned by this cultural tradition which deserve recognition and which daily influence our lives." (I. Zepp, p. 139)

"Capital of the Muslim (and Arab) Empire, Baghdad was for several centuries the cultural center of the medieval Muslim world. Its brilliant intellectual life revolved around Bayt al-Hikmeh (House of Wisdom), an academy, library, museum, observatory, and translation center. Founded by the scholarly Caliph Mamoun in 830 A.D., the Bayt al-Hikmeh was the most important institution to be established since the Alexandrian Library in Egypt in the third century B.C." Arab World Studies Notebook, p. 273)



Many scholars believe that the main contribution of Muslims Western Arabs and to civilization was their "recovery and subsequent introduction to the West of ancient learning." At the right you see a picture of Bayt al-Hikmah where hundreds of manuscripts were translated into Arabic from Greek, Persian, Sanskrit, and Syriac (a dialect of Aramaic, the language of Jesus). Had the priceless manuscripts been lost, "the world would have been as poor as if they had never been produced." (Phillip Hitti, The History of the Arabs, p. 363)



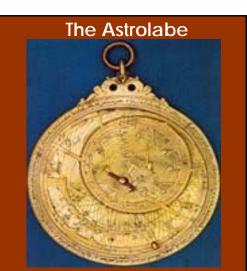
The following are English words from Arabic			Foods introduced to the West by Arabs and Muslims:	
admiral adobe alchemy alcove alfalfa algebra algorism alkai almanac arsenal atlas average azure baroque barracks caliber candy cane carafe	cipher (sifr=zero) coffee cotton crimson damask	mattress nadir racquet saffron sash satin sherbet sugar sumac syrup tambouri ne tariff traffic zenith zero	apricots Artichokes asparagus bananas Buckwheat cherries dates eggplants Figs ginger grapefruit lemons Limes Oranges Pomegranates quinces Rice spinach strawberries sugar	



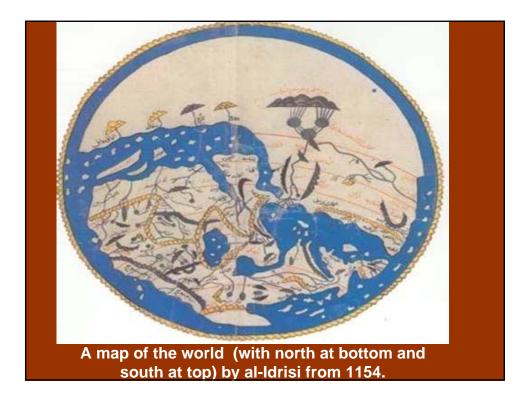
This spherical astrolabe is the only one known to exist, dated 1480. The large ecliptic circle bears the names of the signs of the Zodiac. The *rete*, or star map, is attached to the globe with pointers for 19 fixed stars.



This scientist is presumably using the astrolabe to measure the altitude of a star.

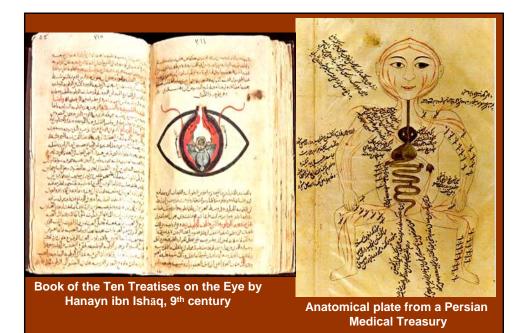


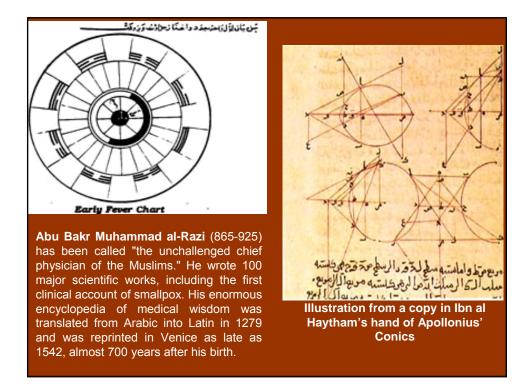
The Astrolabe is one of the most important instruments used by early astronomers for measuring the altitude of heavenly bodies above the horizon, and so determining the time of the day or night. Readings are taken by means of a rotatable alidade, a diametrical rule with sights.



# Medicine

- > organized public health services, and doctors attended patients in hospitals, at home, in prison, and in rural areas.
- used anesthesia in surgery;
- cauterized wounds;
- discovered that epidemics arise from contagion through touch and air;
- > endowed special institutions for lepers, the lame, and the blind
- > discover that fever was not a disease, but a result of the body's fight against disease;
- Book of the Ten Treatises on the Eye by Hanayn ibn Ishāq, 9th century
- carried ambulatory hospitals on a camel's back (a kind of eighth century MASH);
- separated pharmacology from medicine and the writing of prescriptions.





# **Other Scientists**

- Al-Khwarizmi (780-850),
- Ibn Sina (Avicenna) (980-1037)
- Ibn-Rushd (Averroes) (12th century)
- Ibn-Khaldun (1332-1406)
- Ibn-Battuta (1304-1377)
- Hassan Al-Wazzan or Leo Africanus

