

Works Cited

Primary Sources

Images

"Alhambra- A Moorish Affair, Spain." *Planet Den*. N.p., n.d. Web. 30 Jan. 2016.

<<http://planetden.com/architecture/alhambra-moorish-affair-spain>>. I used this picture in my thesis page and it is a picture of the Alhambra during dusk.

"The Aljafería Palace." *Islamic Arts & Architecture*. N.p., n.d. Web. 3 Apr. 2016.

<<http://islamic-arts.org/2012/the-aljaferia-palace/>>. I used a picture of the Aljaferia palace from this website in my legacy page.

"Art and Identities in Medieval Spain." *University of York Department of History of Art*. N.p.,

n.d. Web. 30 Jan. 2016. <<https://www.york.ac.uk/history-of-art/current/postgraduate/modules/hoa00001m/>>. I used this picture in my society page and it shows a Jew Cantor telling the Passover story in Al-Andalus during 14th century.

"Encyclopedia Britannica Collection." *Encyclopedia Britannica*. N.p., n.d. Web. 18 Jan. 2016.

From this site I used 21 photos in my slideshows and pictures throughout the site and in my timeline, title, art and architecture, society, and legacy.

"From eleventh-century Spain." *Exhibition: The Astrolabe, East and West*. N.p., n.d. Web. 30

Jan. 2016. <<http://www.mhs.ox.ac.uk/astrolabe/exhibition/52473.htm>>. This picture shows a astrolabe from Al-Andalus that is made by Muhammad ibn Sa'id as-Sabban and I used it in my astronomy page.

"Hektoen International." *Lithotripsy: a historical review*. N.p., n.d. Web. 25 Jan. 2016.

<http://www.hektoeninternational.org/index.php?option=com_content&view=article&id

=549>. I used a picture from this website in my medicine page to show medical exploration and advancements.

"Ibn Hazm: Gleanings from his Thoughts on Philosophy and Science." *Muslim Heritage*. N.p., n.d. Web. 30 Jan. 2016. <<http://www.muslimheritage.com/article/ibn-hazm-gleanings-his-thoughts-philosophy-and-science>>. I used 3 pictures from this site one of them shows the opening pages of Ibn Hazm's *Tawq al-Hamama* and two depict pages from the story of Bayad and Riyad.

"Jug from Al-Andalus." *Freer and Sackler Galleries*. N.p., n.d. Web. 10 Jan. 2016. In my slideshow in my art section, I used this jug to show the richness of art during the time.

"Mapa de Al-Idrisi (Copia de 1300 d.C; aprox.). Biblioteca Nacional de Francia." *Blog Druta*. N.p., n.d. Web. 9 Apr. 2016. <<https://blogdruta.com/2013/10/13/agenda-andalucia-la-imagen-cartografica/>>. I used an image from this site that I put in my Geography & Exploration page.

"The MET Islamic Art Collection." *MET Museum*. N.p., n.d. Web. 18 Jan. 2016. This museum provided me with 17 photos that I used in slideshows throughout my website and in my art and architecture page.

"Mosque of Cordoba at Night." *Spain is Culture*. N.p., n.d. Web. 10 Jan. 2016. <http://www.spainisculture.com/en/rutas_culturales/ruta_del_califato.html>. I used the picture of the mosque of Cordoba for my title page.

"The Mosque of Córdoba ~ A Glimpse into Moorish Spain." *Arabic Zeal*. N.p., n.d. Web. 30 Jan. 2016. <<http://arabiczeal.com/mosque-crdoaba-glimpse-moorish-spain/>>. I used an image from this site in my cultural exchange page and it shows part of the mosque of Cordoba.

"Part of what remains at Medinat Az-Zahra, (Cordoba 930-1010)." *Khushu*. N.p., n.d. Web. 10 Jan. 2016. <<https://khushu.wordpress.com/2008/04/27/the-spirit-of-al-andalus/>>. I used this picture in a slideshow in my architecture section to display architectural advancements.

"The Seas of Sindbad." *Aramco World*. N.p., n.d. Web. 31 Jan. 2016.

<<http://archive.aramcoworld.com/issue/200504/the.seas.of.sindbad.htm>>. I used a 12th-century map of the Indian Ocean by al-Idrisi from this website on my geography and exploration page.

"Sevilla: Alcazar Real." *BALLANDALUS*. N.p., n.d. Web. 3 Apr. 2016.

<<https://ballandalus.wordpress.com/2012/07/22/sevilla-alcazar-real-40/>>. I took a picture from this web site of the Alcazar and I used it in my legacy slideshow.

"Sinagoga del Transito, Toledo." *Sacred Destinations*. N.p., n.d. Web. 11 Apr. 2016.

<<http://www.sacred-destinations.com/spain/toledo-sinagoga-del-transito>>. I used one picture from the website to show the Sinagoge del Transito on my Art & Architect slide show.

"Torre del Oro Tower in Seville, Spain." *Thousand Wonders*. N.p., n.d. Web. 3 Apr. 2016.

<<http://www.thousandwonders.net/Torre+del+Oro>>. I used the Golden Tower picture (Torre del oro) from this website and put in in my legacy slide show.

"The Unesco Courier Collection." *Unesco Courier*. N.p., n.d. Web. 30 Jan. 2016. I used 20 photos in my cultural exchange, society, music & literature, geography, and timeline page and used few quote from.

Secondary Sources

Interviews & Lectures

Armada, Almudena Ariza. E-mail interview. 30 Jan. 2016. Professor Almudena Ariza Armada holds a BA and MA degree in Medieval History, doctoral studies in Numismatics and her PhD in Arabic and Islamic Studies from the Complutense University of Madrid. In her email interview she focused on interaction between Muslims, Jews, Christians. I gained knowledge about the interactions in Al-Andalus. She describes the tolerance, key figures, and contributions from Al-Andalus as well as advancements in all academic subjects. I used quotes from her interview in my site.

Barry, Michael. "Zenith of Cordoba." Princeton University. Princeton. 18 Nov. 2015. Lecture. This lecture was given by Michael Barry who is a professor of medieval history at Princeton University. This lecture boosted my knowledge about the wealth of knowledge as well as prosperity of Cordoba.

Cook, Michael A. Personal interview. 24 July 2015. Mr. Cook, an expert in Near Eastern studies and a professor at Princeton University, described the information about Al-Andalus, for instance, brief information about key figures and history of Al-Andalus. I got valuable information for my research and expanded it further. I used a clip from his interview in my site as well as some quotes.

Fierro, Maribel. Personal interview. 3 Aug. 2015. Dr. Maribel Fierro, an academic researcher of Middle Eastern Studies at the Spain's National Research Council in Madrid. Fortunately, I was able to interview her at Princeton University while she was visiting USA. She provided me with information about Al-Andalus such as the background, origin, advancements in education and the relative tolerance. She mainly talked about aviation, a key figure named Ziryab, as well as the birth of the Spanish language through Arabic. She articulated the exploration in Al-Andalus as well as what knowledge and goods were

exchanged throughout the region. She gave me multiple resources I could use for my topic. I used a clip from her interview in my site as well as some of her interview quotes.

Kozodoy, Maud. E-mail interview. 5 Jan. 2016. Maud Kozodoy is a professor (Adjunct) at New York University. She described the Jewish contribution in Al-Andalus. She gave me multiple sources for further research and use.

Scheindlin, Raymond. Personal interview. 15 Dec. 2015. Professor Raymond Scheindlin is a Professor of Medieval Hebrew Literature and Director of Shalom Spiegel Institute of Medieval Hebrew Poetry at the Jewish Theological Seminary. I acquired a multitude of information when learning about the Jewish side of the story in Al-Andalus. He talked about how Jews helped in the advancements of education. Jews made their own mark in history by creating Judeo-Arabic poetry. In a sense, Jews were the intermediaries of transferring Muslim information to the Christians. I used a clip from his interview in my site as well as some of his interview quotes.

Stearns, Justin. Videoconference interview. 30 Mar. 2016. Justin Stearns is an Assistant Professor of Arab Crossroads Studies at NYU-Abu Dhabi and holds a PhD from Princeton University, Department of Near Eastern Studies, 2007. I interviewed him through Skype after my regional contest and enhanced my knowledge in many aspects of the topic. I specifically learned how Christians savored from the knowledge of Muslims and the culture was really developed through the intermingling of different faiths and ethnicities. Although there were several conflicts during the period but the cross culture learning continued.

Zayd, Abu. Personal interview. 7 Aug. 2015. Dr. Abu Zayd helped me in learning more about Al-Andalus and add more to my general information for my site. I used a quote from Dr.

Abu Zayd in my site. He mainly specified on architecture, taifas, and religion. I used this information as another starting point to get even more information from what I learned using keywords from the interview.

Periodicals

"Borges in search of Averroes." *The Unesco Courier*: n. pag. Print. In this article Borges an Argentine writer gave a snippet about Averroes work in Al-Andalus and what areas of education he explored.

"The Christian Contribution." *The Unesco Courier*: n. pag. Print. This article examines the contribution that Christians made to help build the society of AL-Andalus and what areas of science and math they helped advanced.

"Convergent Streams." *The Unesco Courier*: n. pag. Print. This article explained the transmission of knowledge as well as the adaptation of the arab culture in many forms such as poetry and linguistics.

"Cordoba the Magnificent." *The Unesco Courier*: n. pag. Print. This article explained the magnificence of Cordoba and all sorts of influences from intellectual to cultural.

Hindustan Times. ProQuest Central. Web. 11 Nov. 2015. This article gave me a simple understanding about what changes that the muslims introduced in all areas of studies as well as changing greek thinking.

"The pursuit of learning." *The Unesco Courier*: n. pag. Print. This article is about how knowledge was transmitted as well as describing the wealth of knowledge.

"The rise of the Ummayyad dynasty in Spain." *The Unesco Courier*: n. pag. Print. This article gave some background and origin of Al-Andalus as well as the Ummayyad family ruling lineage that made Al-Andalus second to none.

"The roots of Coexistence." *The Unesco Courier*: n. pag. Print. This article gave me a thorough examination of peaceful coexistence between the three monotheistic faiths based on religious principles.

"Singular and plural: the heritage of Al-Andalus." *The Unesco Courier*: n. pag. Print. This article gave me a detailed understanding of how multiple exchanges such as intellectual, cultural, and more, in Al-Andalus took place.

"The Toledo School." *The Unesco Courier*: n. pag. Print. This article explains how the West got much of its knowledge through the translations and transmissions in Toledo.

Nonperiodicals

Al-Andalus. N.p.: n.p., n.d. Print. It gave me a very detailed research about each of the improvements that Islamic Spain has done in different fields such as aviation, algebra, and calligraphy.

Constable, Olivia Remie. *Medieval Iberia: Readings from Christian, Muslim, and Jewish Sources*. N.p.: n.p., n.d. Print. This book is about Medieval Iberia that is a collection of documents from the 8th to the 15th century that was translated from many languages such as Latin, Arabic, and Hebrew by prominent scholars. It showed that Al-Andalus was a place where coexistence was mainly peaceful and it brought many political, economical, and religious advantages. Many of the sources displayed the life and advancements of Al-Andalus.

The Legacy of Muslim Spain. N.p.: n.p., n.d. *Ebscohost*. Web. 15 Nov. 2015. This article gave me good sources of information that I could enhance my research. It explained how

people from different groups shared information that lead to many advancements and it left a growth in the studies of the world.

The Moors In Spain. N.p.: n.p., n.d. Print. This book gave a wealth of information about Al-Andalus in-depth such as the beginning of Abd Al-Rahman's reign as well as why the Al-Andalus split up into taifas. I used this book for quotes and a way to refine my website.

The Ornament of the World: How Muslims, Jews, and Christians Created a Culture of Tolerance in Medieval Spain. N.p.: n.p., n.d. Print. This book really delivers an amazing sense of detail about how the Muslims really transformed Spain into what it is today. Al-Andalus describes the transition between the old world and the new world creating multiple inventions and ideas that we still use today. The words are put into a history and fable like story provides us a taste into the fantastic world of Al-Andalus. It gives us an inside look at the glorious history of 800 years.

A Short History of the Jewish People: From Legendary Times to Modern Staehood. N.p.: n.p., n.d. Print. From taking one chapter from this book, I have gotten information about Jewish literature in Al-Andalus as well as a poem written by a Dunash ben Labrat in Al-Andalus. I also used one autograph letter by Maimonides from this book.

Spain: A History. N.p.: n.p., n.d. Print. This book helped me gain detailed background information from two chapters about Visigothic Spain.

A Vanished World. N.p.: n.p., n.d. Print. This book helped me gain a few quotes and some more knowledge about my topic. Also, it talks about how Muslims, Jews and Christians lived together in harmony and accomplished many things together. I also used one picture from this book.

Audiovisual

Abu al-Qasim al-Zahrawi. Youtube. N.p., n.d. Web. 25 Jan. 2016.

<<https://www.youtube.com/watch?v=hh7x9WHwMrQ>>. I used this video in my website for my medicine section as it describes an important figure in Andalusian medicine and made a significant impact in that area.

ART OF SPAIN: THE MOORISH SOUTH. Film. This film gave me multiple points of detailed information which helped me a lot in my research. The Muslim culture is part of the blood of modern Spain. The documentary described how important the art and architecture in Al-Andalus has played a role as part of the culture in Spain; being allowed to stay as a critical message for history.

BBC Documentary - An Islamic History of Europe. Film. This documentary takes the journey of the forgotten history of Muslims in Europe (Sicily, Spain). It helped me to absorb the tale of cultural influences and scientific advancement that has a profound impact and can still be felt today.

Cities of Light. Film. This movie gave me a huge boost of knowledge about Al-Andalus. Al-Andalus was a place that was feeling like an utopia because of how it had relative tolerance between the monotheistic faiths. There was still conflicts in society, but it slowly calmed out due to the amount of respect Muslims gave to the other people. It is a lesson for us to know all of the intellectual and cultural secrets and how they were as modern as us today but a thousand years ago. It also shows that if people make irrational fear for themselves religious extremism will rise from people with irrational fear. The movie talks about all the advancements in the sciences, the arts and many others fields of study and telling us that people wrote out the advancements out of history and credit

people who just promoted the idea. The culture and beliefs of the society mixed and the knowledge of the Greeks and Romans were revived. The eagerness of learning was spread across the region. Al-Andalus was the seed of the Renaissance.

The First Aviator Abbas ibn Firnas. Youtube. N.p., n.d. Web. 7 Aug. 2015.

<https://www.youtube.com/watch?v=DuwOfkjR_E>. This video gave the whole process of Abbas ibn Firnas making a invention to fly.

"Ibn Firnas gliding." *Group Origin.* N.p., n.d. Web. 30 Jan. 2016.

<http://www.grouporigin.com/clients/qatarfoundation/photos/chapter2/photo_42_big.jpg>. I used this image in my aviation page and it depicts Abbas ibn Firnas gliding.

"Kingdom of Visigoths; The Visigothic church of San Pedro de la Nave." *The Middle Ages.* N.p., n.d. Web. 9 Jan. 2016. <<http://www.themiddleages.net/visigoths.html>>. I have used these 2 images in my website for my background to show a map of the kingdom of the Visigoths and a church from the Visigothic time.

Muslim Spain (In Our Time, 21/11/02). N.p., n.d. Web. 10 Apr. 2016.

<https://www.youtube.com/watch?v=4Rmog9Ob_3g>. This podcast has given me a good amount of information even though it was a general overview of all time periods in Al-Andalus. It also talks about some of the key figures that made the significant contribution in different fields.

"Picture of Education, Al-Andalus." *Museum of the City.* N.p., n.d. Web. 10 Jan. 2016.

<<http://www.museumofthecity.org/project/al-andalus-the-lost-civilization/>>. I used this Andalusian map in timeline.

Spain's Last Muslims The Expulsion of the Moriscos (Al-Andalus). Youtube. N.p., n.d. Web. 27

Dec. 2015. <<https://www.youtube.com/watch?v=HKFBPqx8r3A>>. This video described

the end of the Muslims in Spain and how they tried to practice religion in private and how they were harassed in every way by being tortured and killed. Finally, in 1609 the Muslims were expelled to North Africa where they had to make their own communities.

When the Moors Ruled Spain. 2005. Film. This documentary gave me a detailed information about Al-Andalus such as how it impacted the world at the time and how it merged together East and West to create a diverse community with different intellectual ideas and knowledge. The East introduced new crops, knowledge and ideas to the West and with the knowledge other religions had they made multiple translation to understand what is life. They wanted to know all the algorithms and created many thing such as street lights, paper, astrolabes, and types of architecture as a product of all the immense wealth of knowledge that was flowing in continuously.

Web sites, e-sources

"11th C al-Andalus: Almoravids." *Spain Then and Now*. N.p., n.d. Web. 20 Mar. 2016.

<http://www.spainthenandnow.com/spanish-history/11th-c-al-andalus-almoravids/default_146.aspx>. This website allowed me to understand what changes Almoravids brought to Spain.

"Abbas ibn Firnas Quotes." *AZ Quotes*. N.p., n.d. Web. 7 Aug. 2015.

<http://www.azquotes.com/author/44056-Abbas_ibn_Firnas>. This website gave me a quote from Abbas ibn Firnas.

"Abu al-Qasim Al-Zahrawi the Great Surgeon." *Muslim Heritage*. N.p., n.d. Web. 30 Jan. 2016.

<<http://www.muslimheritage.com/article/abu-al-qasim-al-zahrawi-great-surgeon>>. This is a picture of the Frontispiece of the Latin translation of Al-Zahrawi's *Kitab al-tasrif*:

Liber theoricæ necnon practicæ Al-saharavii... iam summa diligentia & cura depromptus
in lucem which I used in Scientific Exploration

"Al-Andalus." *SlideShare*. N.p., n.d. Web. 5 Nov. 2015.

<http://www.slideshare.net/ang_ruiz/alandalus-11279906>. This slideshow gave me a taste of the timeline of my topic and what change it brought to Europe.

"Al-Andalus: Islamic Spain, A.D. 711-1492." *Ebscohost*. N.p., n.d. Web. 3 July 2015.

<<http://web.b.ebscohost.com/ehost/detail/detail?sid=c69769ca-8c14-42b8-bb0a-366f8a24f4ca%40sessionmgr198&crlhashurl=login.aspx%253fdirect%253dtrue%2526hid%253d4104%2526db%253dfth%2526AN%253d9511240342%2526site%253dehost-live&hid=109&vid=0&bdata=JnNpdGU9ZWwhvc3QtbGl2ZQ%3d%3d#db=fth&AN=9511240342>>. This source gave me a brief summary of my topic, Al-Andalus, when Muslims ruled Spain, focus on Abdul Rahman III glorious period and then fall.

"AL-ANDALUS TIMELINE." *ASL-DIVERSIFICACION*. N.p., n.d. Web. 5 Nov. 2015.

<<http://asl-diver.blogspot.com/2013/05/al-andalus-timeline.html>>. This website briefly tells the simple timeline about Al-Andalus.

"Al-Andalus Timeline [711-1492]." *Melina Octovia*. N.p., n.d. Web. 26 Aug. 2015.

<<https://sites.google.com/site/melinaoctovia/moorish-spain-unit>>. This website gave me a detailed timeline of important events of Al-Andalus.

"Alhambra." *Abc-Clio*. N.p., n.d. Web. 8 Aug. 2015. <[http://ancienthistory.abc-](http://ancienthistory.abc-clio.com/Search/Display/1054531?terms=spain+islamic+art)

[clio.com/Search/Display/1054531?terms=spain+islamic+art](http://ancienthistory.abc-clio.com/Search/Display/1054531?terms=spain+islamic+art)>. This website gave me a brief description on the Alhambra such as the materials used, the items that were part of it, and the art that was painted on it.

"AL-ZAHRAWI – THE PIONEER OF MODERN SURGERY." *Lost Islamic History*. N.p., n.d.

Web. 10 Aug. 2015. <<http://lostislamichistory.com/al-zahrawi/>>. This website gave me an insight on Al-Zahrawi medical exploration & contribution in AL-Andalus.

"Andalusian Coins (711-1494CE)." *Muslim Heritage*. N.p., n.d. Web. 6 Nov. 2015.

<<http://www.muslimheritage.com/article/andalusian-coins-711-1494ce>>. This website helped me understand the use of Andalusian coins and when Muslims rulers started to use in Spain.

of different currencies used in Al-Andalus.

"Andalusia When it Was." *Aland Muslim Compound*. N.p., n.d. Web. 21 June 2015.

<<http://alandislam.tripod.com/id21.html>>. This website helped me understand the basic concept as it interprets the full summary of Muslim Spain such as when Muslims came to Iberian Peninsula, why the Islamic rule was successful and the reasons the fall of Islamic rule.

"Andalusia When It Was..." *Hispanic Muslims*. N.p., n.d. Web. 11 Aug. 2015.

<<http://www.hispanicmuslims.com/andalusia/andalusia.html>>. This website is also a brief summary of the Al-Andalus, which reinforced my previous knowledge.

"Andalusi Poetry." *Islamic Spain TV*. N.p., n.d. Web. 6 Nov. 2015.

<http://www.islamicspain.tv/Arts-and-Science/andalusi_poetry.htm>. This website gave me a few excerpts of Andalusian poetry.

"ANDALUSI SOCIETY." *Cities of Light: The Rise and Fall of Al-Andalus*. N.p., n.d. Web. 7

Aug. 2015. <<http://www.islamicspain.tv/Andalusi-Society/index.html>>. This website gave me brief insight for the society of Al-Andalus, such as the key figures, the cities, and the women role in the society.

"ARCHITECTURE." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 8 Aug. 2015. <<http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Architecture.htm>>. This website describes the advancement of Architecture in Al-Andalus and I further got few resources.

"Architecture of Muslim Spain and North Africa." *Muslim Heritage*. N.p., n.d. Web. 5 Nov. 2015. <<http://www.muslimheritage.com/article/architecture-muslim-spain-and-north-africa>>. Another great article about the architecture of Al-Andalus, which explains the historical background of Muslim architecture and famous monuments.

"THE ART OF ISLAMIC SPAIN." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 8 Aug. 2015. <http://www.islamicspain.tv/Arts-and-Science/the_art_of_islamic_spain.htm>. The article, The Art of Islamic Spain, from islamic spain tv portray the art during the Islamic Spain period. Art was a fundamental feature in Al-Andalus and many artifacts still exhibits the splendid beauty of art like carved ivory pyxides which was created during that time.

"The Art of the Almoravid and Almohad Periods (ca. 1062–1269)." *MET Museum*. N.p., n.d. Web. 1 Apr. 2016. <http://www.metmuseum.org/toah/hd/almo/hd_almo.htm>. This website had helped me learned more about how the Almohads and Almoravids came into power in Al-Andalus and also talked about their architecture and art.

"Astronomy." *Cities of Light: The Rise and Fall of Al-Andalus*. N.p., n.d. Web. 8 Aug. 2015. <<http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Astronomy.htm>>. This article briefly narrates the advancement in astronomy in Al-Andalus and how knowledge was gathered from many cultures which provided a solid ground for astronomy. A famous scientist al-Zarqali (1029-1087 CE) from Córdoba,

Spain, prepared astronomical charts called the *Toledan Tables* and also built & improved on the astrolabe.

"Averroës." *Ebscohost*. N.p., n.d. Web. 12 July 2015.

<<http://web.b.ebscohost.com/ehost/detail/detail?vid=4&sid=04d2849d-13cd-442a-ad2f-7827848ab8a0%40sessionmgr115&hid=110&bdata=JnNpdGU9ZWZWhvc3QtbGl2ZQ%3d%3d#db=funk&AN=AV180900>>. This article gives me a brief glimpse of Islamic philosopher, physician, and jurist contributions known as Averroes (Ibn Rushd), born in Cordoba.

"Avicenna." *Ebscohost*. N.p., n.d. Web. 12 July 2015.

<<http://web.b.ebscohost.com/ehost/detail/detail?vid=2&sid=04d2849d-13cd-442a-ad2f-7827848ab8a0%40sessionmgr115&hid=110&bdata=JnNpdGU9ZWZWhvc3QtbGl2ZQ%3d%3d#db=funk&AN=AV181900>>. This website helped me learn the basics of the scholar Avicenna.

"The Berber Empires Unify Al-Andalus." *Cities of Light: The Rise and Fall of Islamic Spain*.

N.p., n.d. Web. 25 Aug. 2015.

<http://www.islamicspain.tv/Timelines/TheBerberEmpiresUnifyAl_Andalus.htm>. This website gave me a detailed timeline (1095-1212 CE) of each major event of Al-Andalus, which increased my understanding of my research.

"Botany." *Cities of Light: The Rise and Fall of Muslim Spain*. N.p., n.d. Web. 10 Aug. 2015.

<<http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Botany.htm>>. This article gave me a description about the exploration in the field of Botany and how the botanists of Al-Andalus developed, collected, and many useful, , nutritious, and health-giving plants which improved the lives of the people.

"Botany, Herbals and Healing in Islamic Science and Medicine." *Muslim Heritage*. N.p., n.d.

Web. 6 Nov. 2015. <<http://www.muslimheritage.com/article/botany-herbals-and-healing-islamic-science-and-medicine#sec4>>. This website gave me items that were created from botany such as syrups, lohochs, and decoctions. It described how Arabic Botany was founded and the different herbs and plants that revolutionized botany for the whole earth.

"Caliphal Splendor at Ummayad Cordoba." *Cities of Light: The Rise and Fall of Islamic Spain*.

N.p., n.d. Web. 25 Aug. 2015.

<<http://www.islamicspain.tv/Timelines/CaliphalSplendoratUmmayadCordoba.htm>>. This website gave me the timeline of most important events that happened during the periods of Abd al-Raham III.

"Christian States Begin the Reconquista." *Cities of Light: The Rise and Fall of Islamic Spain*.

N.p., n.d. Web. 25 Aug. 2015.

<<http://www.islamicspain.tv/Timelines/ChristianStatesBegintheReconquista.htm>>. This website gave me a description of the Christian Reconquista timeline.

"The Cid." *Encyclopedia Britannica*. N.p., n.d. Web. 20 Mar. 2016.

<<http://www.britannica.com/biography/the-Cid>>. This site allowed me to understand the Cid's life and history and how he helped Muslims and Christians.

"The Cities." *Islamic Spain TV*. N.p., n.d. Web. 31 Mar. 2016.

<<http://www.islamicspain.tv/Andalusi-Society/The-Cities.htm>>. This article had helped in refining my research so that I was able to know more about the key cities in Al-Andalus such as Cordoba and Seville and Toledo and what role they played in the Andalusian times.

"The crusades: Step by step through a spectacular mess." *Grateful to the Dead*. N.p., n.d. Web. 25 Jan. 2016. <<https://gratefultothedead.wordpress.com/2010/11/17/the-crusades-step-by-step-through-a-spectacular-mess/>>. I used this site for a map about the reconquista by neighboring christians.

"THE CULTURAL ICON OF AL-ANDALUS." *Lost Islamic History*. N.p., n.d. Web. 14 July 2015. <<http://lostislamichistory.com/the-cultural-icon-of-al-andalus/>>. This article illustrates a key figure of Al-Andalus, Ziryab (Abu al-Hassan), who came from Baghdad and settled down in Spain. He changed the culture of Al-Andalus by introducing new kind of music, fashion etc.

Devisse, Jean. "The Legacy Of Al-Andalus." *UNESCO Sources* 70 (1995): 15. *Academic Search Premier*. Web. 3 Dec. 2015. This article increased my understanding of the legacy of Al-Andalus.

"The Era of the Petty Kings." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 25 Aug. 2015. <<http://www.islamicspain.tv/Timelines/TheEraofthePettyKings.htm>>. This website described the timeline during the taifa period of steady fall of AL-Andalus.

"Expansion & Invasion: Conquest of Spain." *Unusual Historicals*. N.p., n.d. Web. 25 Jan. 2016. <<http://unusualhistoricals.blogspot.com/2008/10/expansion-invasion-conquest-of-spain.html>>. I used this site for a map in my timeline to show the conquering of the Iberian Peninsula by Muslims.

"The Fall of Granada and Its Aftermath." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 25 Aug. 2015. <<http://www.islamicspain.tv/Timelines/TheFalofGranadaandItsAftermath.htm>>. This website gave me timeline of the fall of Al-Andalus.

"The famous Spanish Muslim Scholars." *Imam Reza Network*. N.p., n.d. Web. 7 Aug. 2015.

<<http://www.imamreza.net/eng/imamreza.php?id=10482>>. This website gave me information about some scholars of Al-Andalus such as Ibn Rushd, Ibn Hazm, and their contribution in the society.

"Figs in Muslim Spain." *Muslim Heritage*. N.p., n.d. Web. 5 Nov. 2015.

<<http://www.muslimheritage.com/article/figs-muslim-spain>>. This website gave me information about the importance of figs in Al-Andalus.

"FLIGHT OF THE BLACKBIRD." *Cities of Light: The Rise and Fall of Al-Andalus*. N.p., n.d.

Web. 7 Aug. 2015. <http://www.islamicpain.tv/Arts-and-Science/flight_of_the_blackbird.htm>. This website gave me a whole detail summary about everything Ziryab accomplished in his life, such as founding a music institute, introducing table manners, making the very first toothpaste, making a set up for eating, making new hairstyle, bringing the latest fashion, and reforming the culture.

"The Flowering of Al-Andalus." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d.

Web. 25 Aug. 2015.

<http://www.islamicpain.tv/Timelines/TheFloweringofAl_Andalus.htm>. This website gave me the most important events such as the contribution of Abd al-Rahman the first and the second in the Iberian Peninsula and the building of the Mosque of Cordoba.

"The Golden Age of Andalusian Science." *The Islamic Monthly*. N.p., n.d. Web. 23 Dec. 2015.

<<http://theislamicmonthly.com/the-golden-age-of-andalusian-science/>>. This article gave me a boost in knowledge about developments in science for Al-Andalus such as botany when viewing the unique botanical gardens and the amount of pharmacology from the botany and the medicine had found multiple new surgeries.

Gutwirth, Eleazar. "Book Reviews: Middle Ages And Renaissance." *ISIS: Journal Of The History Of Science In Society* 85.2 (1994): 309. *Academic Search Premier*. Web. 3 Dec. 2015. This article increased my understanding of the advancement in astronomy in Al-Andalus.

"Hasdai Ibn Shaprut." *Chabad*. N.p., n.d. Web. 7 Aug. 2015.

<http://www.chabad.org/library/article_cdo/aid/112514/jewish/Hasdai-Ibn-Shaprut.htm>.

This article describes what Hasdai ibn Shaprut learned in his life from a Jewish point of view. He was a great scholar and physician during the time of Abd al-Rahman III.

"Hisdai Ibn Shaprut." *Encyclopedia Britannica*. N.p., n.d. Web. 8 Aug. 2015.

<<http://www.britannica.com/biography/Hisdai-ibn-Shaprut>>. This website gave me an brief history on Hasdai ibn Shaprut life.

Hughes, Robert. "When Spain Was Islamic." *Time* 140.3 (1992): 74. *Academic Search Premier*. Web. 3 Dec. 2015. This detailed explanation gave a depth of knowledge of the art and architecture of Al-Andalus.

"Ibn Hazm." *Britannica Encyclopedia*. N.p., n.d. Web. 10 Aug. 2015.

<<http://www.britannica.com/biography/Ibn-Hazm>>. This article gave me an insight on Ibn Hazm life and his literary activities. He was a famous historian, jurist, and theologian of Islamic Spain.

"Ibn Hazm: Gleanings from his Thoughts on Philosophy and Science." *Muslim Heritage*. N.p., n.d. Web. 6 Nov. 2015. <<http://www.muslimheritage.com/article/ibn-hazm-gleanings-his-thoughts-philosophy-and-science#001>>. This website gave me an idea about the ideology of Ibn Hazm. As a scholar, Ibn Hazm had a great reputation, and was one of the most original theologians and literati of Muslim Spain.

"Ibn Luyun's Treatise on Agriculture." *Qantara*. N.p., n.d. Web. 31 Jan. 2016.

<[http://www.qantara-](http://www.qantara-med.org/qantara4/public/show_document.php?do_id=225&lang=en)

[med.org/qantara4/public/show_document.php?do_id=225&lang=en](http://www.qantara-med.org/qantara4/public/show_document.php?do_id=225&lang=en)>. From this site I

used a picture in my agriculture page and this picture shows the Ibn Luyun's Treatise on Agriculture.

"Islamic Art as a Means of Cultural Exchange." *Muslim Heritage*. N.p., n.d. Web. 6 Nov. 2015.

<<http://www.muslimheritage.com/article/islamic-art-means-cultural-exchange>>. This

website showed me the importance of Islamic art and how it brought together many faiths as all groups exchanged their ideas to build a successful society.

"Islam most meritorious scientists of Science and Technology in the World." *Generus Indonesia*.

N.p., n.d. Web. 9 Oct. 2015.

<[https://generusindonesia.wordpress.com/2013/03/07/ilmuwan-islam-paling-berjasa-](https://generusindonesia.wordpress.com/2013/03/07/ilmuwan-islam-paling-berjasa-dalam-ilmu-pengetahuan-dan-tehnologi-dunia/)

[dalam-ilmu-pengetahuan-dan-tehnologi-dunia/](https://generusindonesia.wordpress.com/2013/03/07/ilmuwan-islam-paling-berjasa-dalam-ilmu-pengetahuan-dan-tehnologi-dunia/)>. Al-Zahrawi (936-1013) wrote a 30

volume encyclopedia about disease treatment and prevention. In his book he also

explained how to perform certain surgeries and cure certain ailments. He was the first to

use many of the medical instruments we use today such as forceps to crush kidney stones,

stitches to sew up people, and tongue depressors to press down tongues. He is the original

inventor of the technique of treatment of fractures by using a cast as is done in the

modern era. As a physician Caliphate era, he was instrumental in passing medical science

that are important to the modern era.

"Key figures." *Cities of Light: The rise and Fall of Al-Andalus*. N.p., n.d. Web. 6 Aug. 2015.

<<http://www.islamicspain.tv/Andalusi-Society/Key-Figures.htm>>. This website explains

a brief information about the key figures of Al-Andalus for example Abbas ibn Firnas

(810-887) - Muslim, Abu al-Qasim al-Zahrawi (936-1013) - Muslim, and Alfonso VI (1040-1109) - Christian.

"The Kingdom of Granada Flourishes." *Cities of Light: Rise and Fall of Islamic Spain*. N.p., n.d. Web. 25 Aug. 2015.

<<http://www.islamicspain.tv/Timelines/TheKingdomofGranadaFlourishes.htm>>. This website gave me information of the timeline when Granada flourished.

"Majriti: Abu al-Qasim Maslama ibn Ahmad al-Hasib al-Faradi al-Majriti." *islamsci*. N.p., n.d. Web. 8 Aug. 2015. <http://islamsci.mcgill.ca/RASI/BEA/Majriti_BEA.htm>. This website gave me a brief history about Maslamah ibn Majriti and his contributions in astronomy.

"MAPS." *Islamic Spain TV*. N.p., n.d. Web. 25 Jan. 2016. <<http://www.islamicspain.tv/For-Teachers/maps/>>. I used these maps in my timeline to show the amount of Muslim controlled territory in different time periods..

Mason, Catherine, and Carl Waldman. "Visigoths." *Encyclopedia of European Peoples, 2-Volume Set*. New York: Facts On File, 2006. *Ancient and Medieval History Online*. Web. 21 June 2015. <<http://online.infobase.com/HRC/Search/Details/217256?q=Visigoths>>. This website helped me gain the understanding of the background Islamic Spain, which describes the Visigoths rulers.

"MEDICINE." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 27 Aug. 2015. <<http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Medicine.htm>>. This article gave me a description of the advancements in medicine during the time of Al-Andalus and the contributions of Andalusian doctors in medical ethics and hygiene.

"Medieval Islam." *Islamic Medical Manuscripts at the National Library of Medicine*. N.p., n.d. Web. 8 Aug. 2015. <http://www.nlm.nih.gov/hmd/arabic/med_islam.html>. This website describes briefly that how Medicine was a central part of medieval Islamic culture.

"Medieval Sourcebook: Ibn Abd-el-Hakem: The Islamic Conquest of Spain." *Fordham University*. N.p., n.d. Web. 3 July 2015. <<http://legacy.fordham.edu/Halsall/source/conqspain.asp>>. This article from legacy fordham illustrates the fine detailed summary about the origin of my research that how Tarik lead his army to Iberian Peninsula and was successful.

Meisler, Stanley, and Robert Frerck. "The Golden Age Of Andalusia Under The Muslim Sultans." *Smithsonian* 23.5 (1992): 42. *Academic Search Premier*. Web. 3 Dec. 2015. This article gave me detailed Information about AL-Andalus from the start to the end and reinforced my knowledge.

"Muhammed al-Idrisi." *The Planisphere*. N.p., n.d. Web. 30 Jan. 2016. <<http://www.theplanisphere.com/2012/muhammed-al-idrisi/>>. I used a picture from this site in my geography and exploration section and this circular map is a simplified reproduction, of al-Idrisi's masterwork.

"Music." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 8 Aug. 2015. <<http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Music.htm>>. This article from Islamic Spain TV enhanced my knowledge of music in Al- Andalus. I learned about music theory and instruments invented by Muslims. It also talked about a life changing musician who altered how daily life is that still impacts us today.

"The Music of Andalusia Yesterday and Today." *The Best of Habibi*. N.p., n.d. Web. 27 Aug. 2015. <<http://thebestofhabibi.com/vol-18-no-3-march-2001/music-of-andalusia/>>. This

website explains traditions, dances, and style of music during the Andalusian time period and how it has effects on today's modern Arab and European music.

"Muslim History of Seville." *Spanish Days Travel*. N.p., n.d. Web. 31 Mar. 2016.

<http://www.spanishdaystravel.com/history-of-sevilla.php>. This article had helped me learn more about the background of Seville such as when vikings had come as well as the important architecture of Seville during the time of Almoravids and what impact it had during the time of Al-Andalus.

"Muslim Rule in Spain." *Renaissance*. N.p., n.d. Web. 3 July 2015. <http://www.monthly-renaissance.com/issue/content.aspx?id=686>. This website talked about each part of Islamic Spain: its coming to be, its golden age, and its fall.

"PHYSICS & OPTICS." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 27 Aug. 2015. <http://www.islamicspain.tv/Arts-and-Science/The-Culture-of-Al-Andalus/Physics-and-Optics.htm>. This article gave me a detailed description about physics and optics especially during the 9th and 10th century when different scholars, inventors and artists gathered their ideas and did complex experiments to calculate things about the earth's physics and how the eye perceive and worked on sound & music theory.

Plagens, Peter. "Ancient Splendors." *Newsweek* 120.5 (1992): 52. *Academic Search Premier*.

Web. 3 Dec. 2015. This source gave me a multitude of information about how the art of Al-Andalus paved the way for a lot of the architecture the Christians made.

"QUOTES REGARDING MUSLIMS IN SPAIN." *Hispanic Muslims*. N.p., n.d. Web. 6 July 2015. <http://www.hispanicmuslims.com/andalusia/quotes.html>. This website provided the quotes for Muslim Spain.

"The Rise and Fall of the Visigothic Kingdom." *Cities of Light: The Rise and Fall of Islamic Spain*. N.p., n.d. Web. 25 Aug. 2015.

<<http://www.islamicspain.tv/Timelines/TheRiseandFalloftheVisigothicKingdom.htm>>.

This timeline gave me the important events of rise and fall of the Visigothic Kingdom (410-716 CE) and the rise of AL-Andalus.

"Science in Muslim Spain." *Funci*. N.p., n.d. Web. 22 Dec. 2015.

<<http://www.funci.org/en/articulos/surgimiento-ciencia-espana-musulmana/>>. This article was about what huge changes Al-Andalus made in science such as water clocks and their advancements in astronomy let people know more about the universe. In medicine and pharmacy, scientists had created spaces to test and study drugs.

"Spain's Islamic Legacy." *Muslim Heritage*. N.p., n.d. Web. 5 Nov. 2015.

<<http://www.muslimheritage.com/article/spains-islamic-legacy>>. This article briefly describes the legacy of Al-Andalus and all the jewels of Al-Andalus as well as how it was brought down by the Reconquista.

"Statue of Abderraman I." *Almunecar Today*. N.p., n.d. Web. 25 Jan. 2016.

<<http://www.almunecartoday.com/statue-of-abderraman-i/>>. I took a picture of the statue of Abd a-Rahman the first to use in my timeline.

"Stock Photo - 'Al-Andalus and Science' exhibit at the Parque de la Ciencia: Medecine book of al-Zahrawi - Kitab al tasrif li-man 'ayazan' an al-talif-1212-1223 . Page showing medecine instruments. Granada. Andalucia. Spain." *Age of Stock*. N.p., n.d. Web. 30 Jan. 2016. <<http://www.agefotostock.com/age/en/Stock-Images/Rights-Managed/B21-456019>>. I used this picture in the Medicine page and it is part of the Al-Tasrif book.

"Timeline of Medieval Spain and the Iberian Peninsula." *Bridging Cultures Bookshelf: Muslim Journeys*. N.p., n.d. Web. 18 Oct. 2015.

<<http://bridgingcultures.neh.gov/muslimjourneys/items/show/159#cite>>. This website gave me general detail about Al-Andalus's timeline.

"What did the Moors do for us? a history of the Moors in Spain." *Culture Spain*. N.p., n.d. Web. 28 Aug. 2015. <<http://www.culturespain.com/2012/03/02/what-did-the-moors-do-for-us/>>. This website gave me detailed information about what the Muslims did for Spain such as how they advanced in many subjects using newly thought of ideas and it also gave me a timeline of everything that happened for the most important dates and it talked about many key figures during the time.

Yahaya, Nurfadzilah. "Muslim Spain." *Encyclopedia of World History, Vol. 2*. New York: Facts On File, 2013. *Ancient and Medieval History Online*. Web. 21 June 2015. <[http://online.infobase.com/HRC/Search/Details/215309?q=Muslim Spain](http://online.infobase.com/HRC/Search/Details/215309?q=Muslim%20Spain)>. This really helped as the article mainly focused on the encounter and exchange for the Umayyad Dynasty with Jews and Christians.