A2 Al-Ijliya : First Muslim Woman mathematician and scientist
Pre-Lab Questions:  1. Who was Al Tiling? Sta had first muslin women who make
astrolabes in loth century in syria.
Pre-Lab Questions:  1. Who was Al-Ijliya? She was first muslin women who make astrocabes in loth century in syria.  2. How is an astrolabe like a protractor?  and at top half of astrocabe are some as protractor.  3. How does astrolabe work? soo measuring angles.  4. What were the challenges she had to overcome to become a scientist?
4. What were the challenges she had to overcome to become a scientist?  5. What was her contribution in science and technology?  6. How can Al-Ijliya's story be used in the fight of stereotypes against Muslim Women  All Ijliya defined gender stereotype with the early tothe centry  7. Describe the connection between these three: Al-Ijliyah Astrolahes and protractor
7. Describe the connection between these three: Al-'Ijliyyah, Astrolabes and protractor  Astrolabe is more than a profractor— It a hand held model of  Materials needed: Universe, the astrolabe Al-1/1/2 made was  A lab partner, a printer (to print your astrolabe kit), ruler, glue, paper, scissors, tape, string, paper
clip straw and markers.
clip, straw and markers.
Procedure:
1. Make a paper astrolabe by using A4 paper and straightedge. Use half of the paper to
make a semicircle and remaining half to make a paper straw. Watch tutorial, here
Construct a semicircle by pencil
3. Use scissors to make a paper semicircle. Glue it on a hard paper. Create a hole in the middle and
write angles from 0 to 180 degree along the edge of the semicircle.
4. You need to suspend a weight (penny) through the hole of your astrolabe by using a rope.
8. Glue the paper straw to the straight side of your astrolabe
9. Find the height of your classroom using astrolabe.
7. That the neight of your chastoon using assessment
Measurement:
Find the angle from your eye between the adjunct side and hypotenuse of the right angle triangle.
Draw the diagram.  My eye 705 cm
5 705 cm
2. Find the adjacent side, from your eye to the other side of the wall below the ceiling.
235 bridge x 30 cm - 205600
3. Find the distance between ground to your eye.
115 cm
SOH CHA TOA) Find the h of your classroom (show all work):  h = Ground to Mr. Bari's exe t eye to ceiling  h = 115 + x
ana4= 4 62115+x
24= x 105 h = 115 + 705 tan 24
1 and h = 1 1 2 0 0

meter