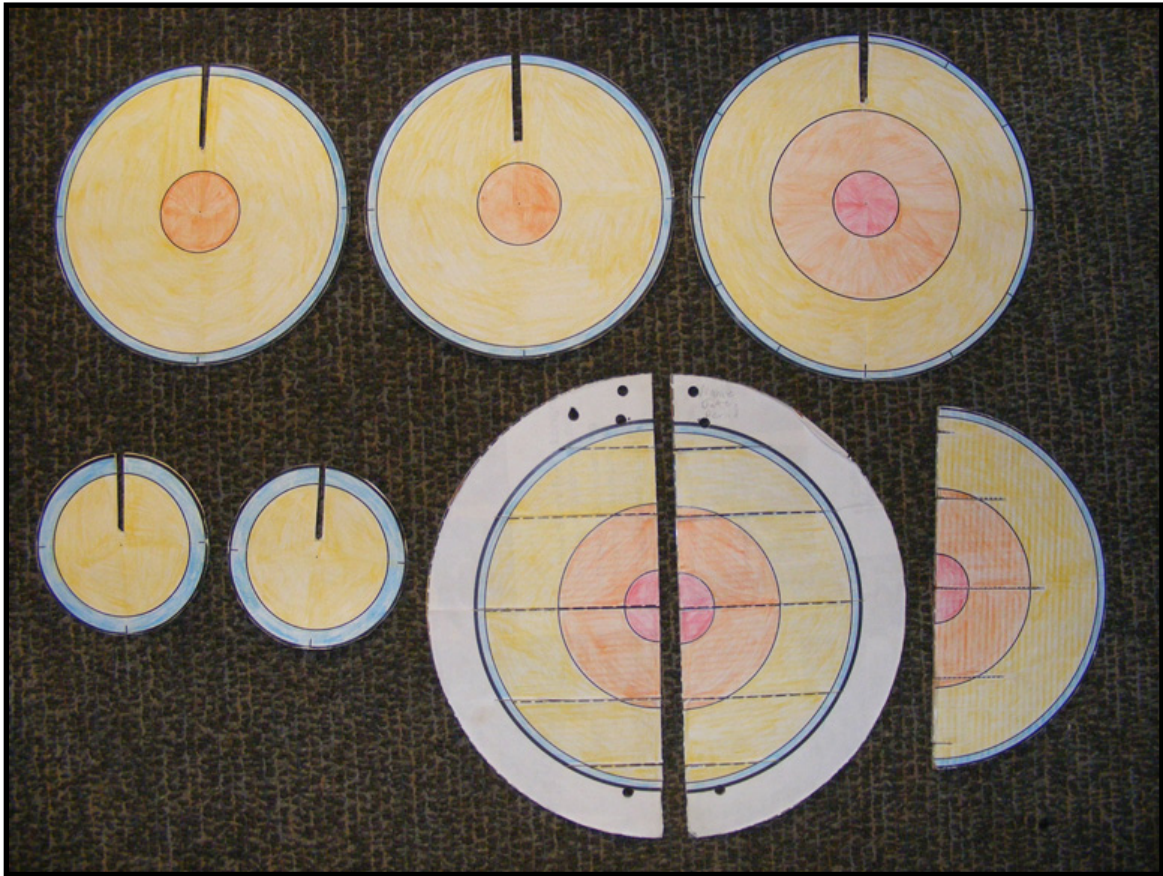


Building the Model

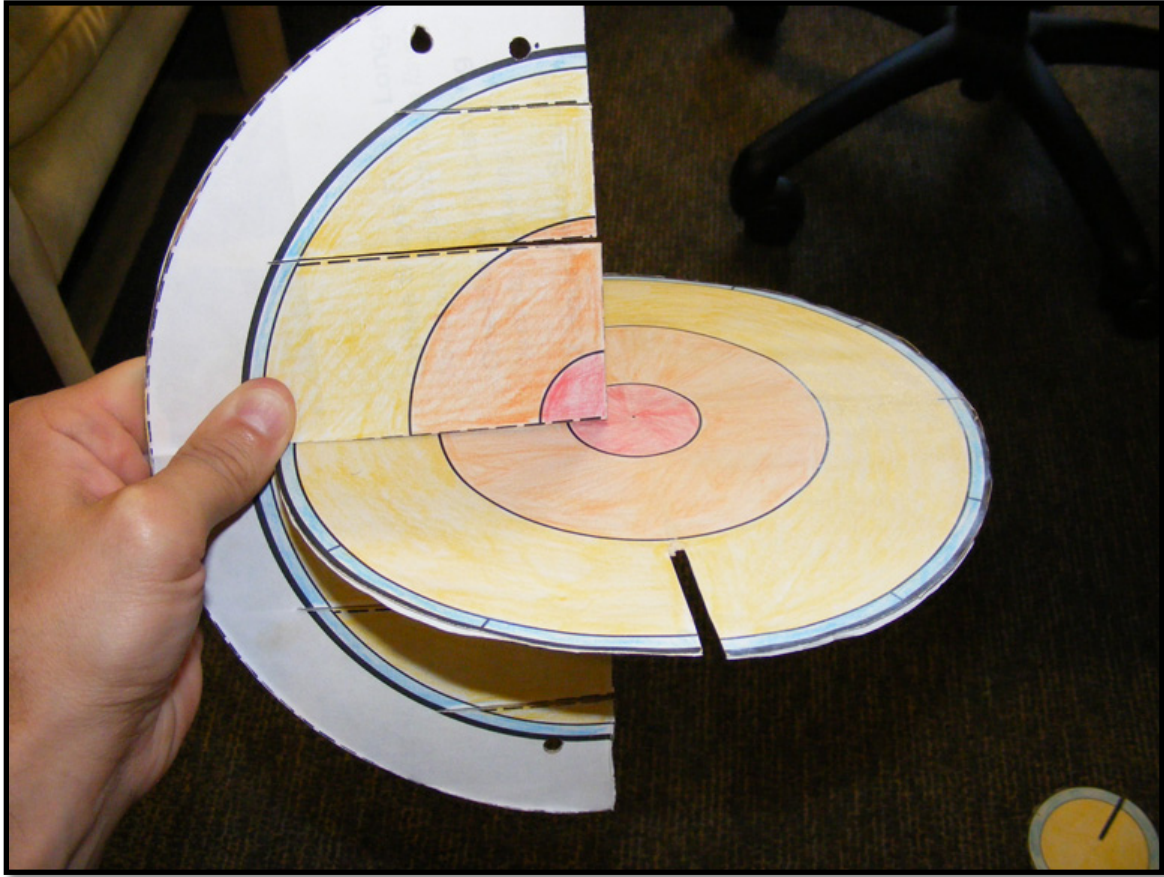
After all the model pieces have been cutout, glued, and colored (optional), students should build the model. Below are instructions on how to put the model together.

1. Check and make sure students have all appropriate pieces. The image below shows all the pieces needed. Ignore the holes punched in the half-circles. This will be mentioned later.

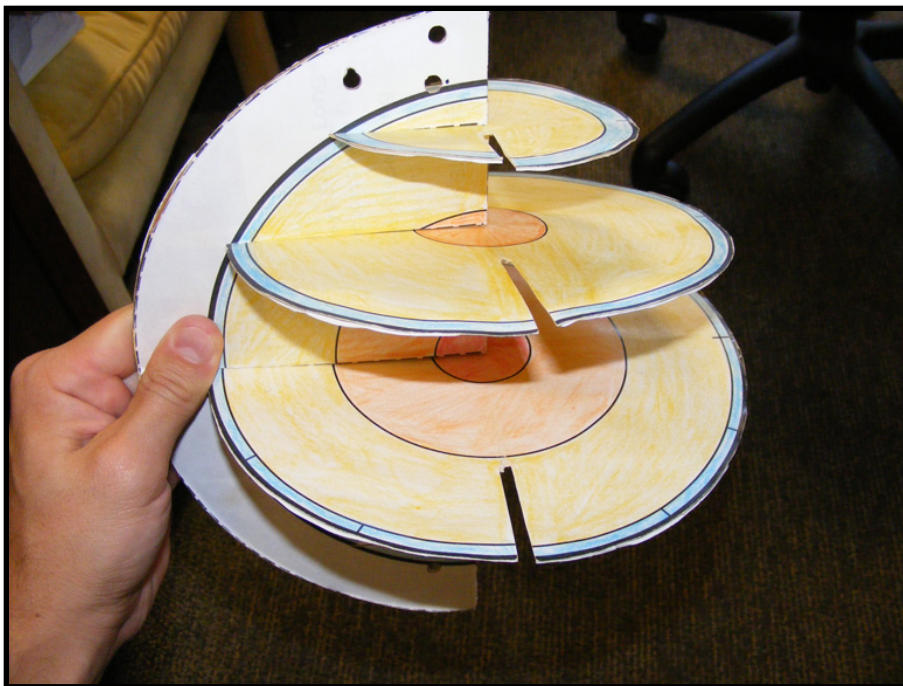


2. Check and make sure all the dashed lines on the half-circles have been cut. Next have the students grab a big half-circle (on with white layer on outside) and the biggest circle (equator).

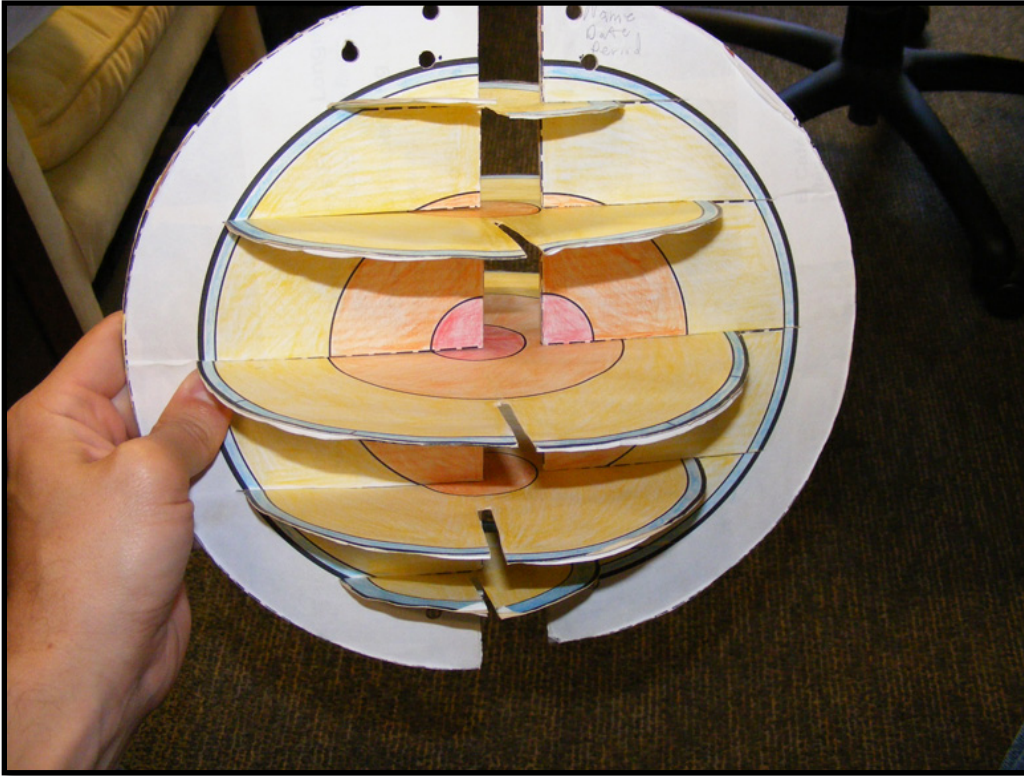
Holding the half circle, slide the equator into the middle dashed line on the half circle. Rotate the circle so that the notched area makes a 90-degree angle to the half circle. See the image below. Slide the circle in so that the layers match-up.



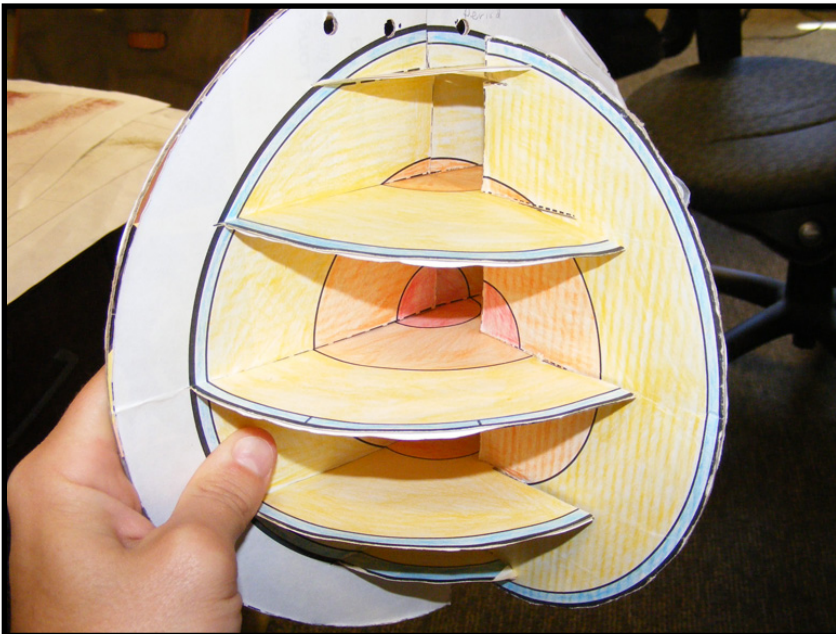
3. Continue to slide the remaining discs into the appropriate areas. Make sure notches in the circles match-up and that the layers line up with the half-circle. See image below:



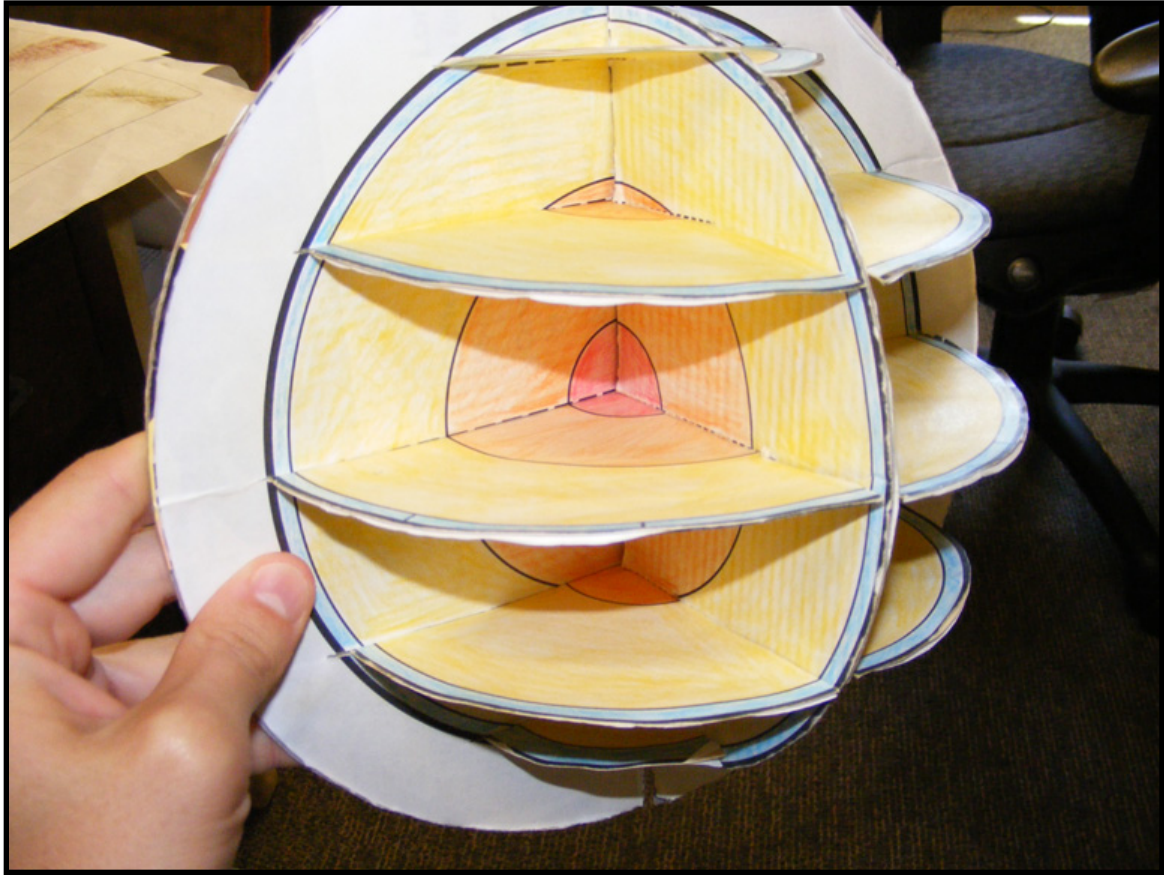
4. Slide the other half-circle one (with the outside white layer) next to the other half-circle. This should form a full circle with a white outside layer. Make sure all the layers stay lined-up and the notches are still at a 90-degree angle. See image below:



5. Take the remaining small half-circle and slide it into the notches. Cut, dashed lines on the small half-circle should interlock with the notches on the circles. See image below:



6. Check and make sure all layers are lined-up. Make sure the small black lines on the biggest circle (equator) line up with the half-circles. The completed model should look like the image below:



7. For extra “locking” strength, holes should be punched on the big half-circles and paperclips can be used to “lock” the model together. I simple hole-punch will work. Simply bend the paperclips so that they slide through holes and then bend the paperclips over. See image below:

