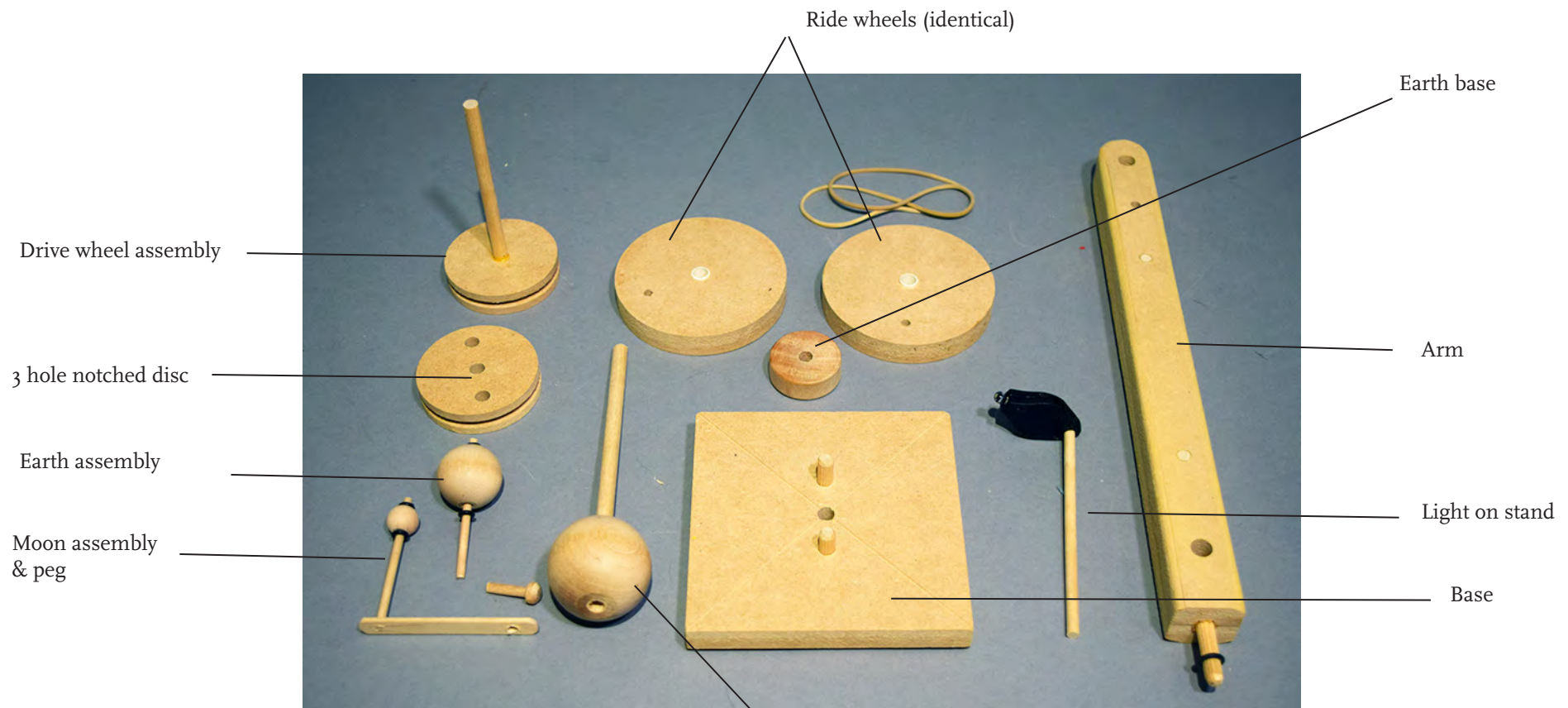


The Whitney Workshop

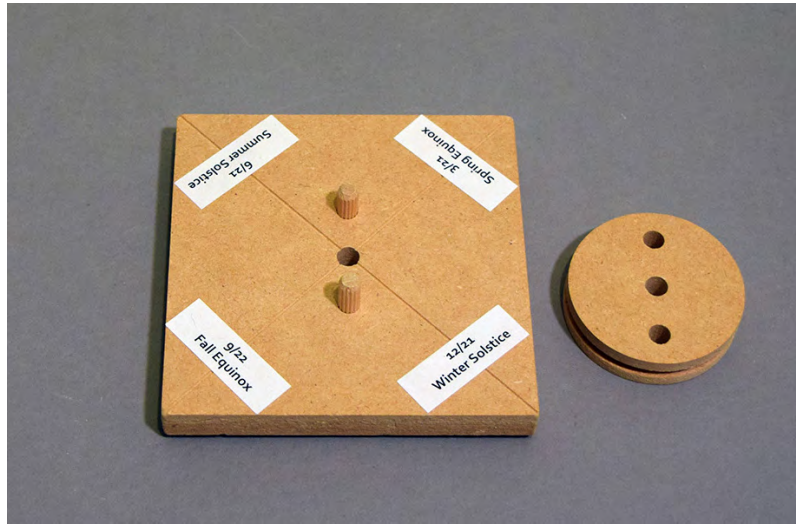
Moon Phase / Seasonal Orrery

www.thewhitneyworkshop.org



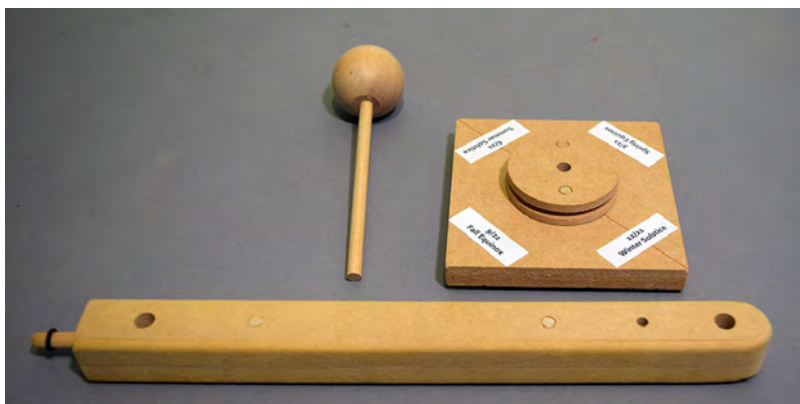
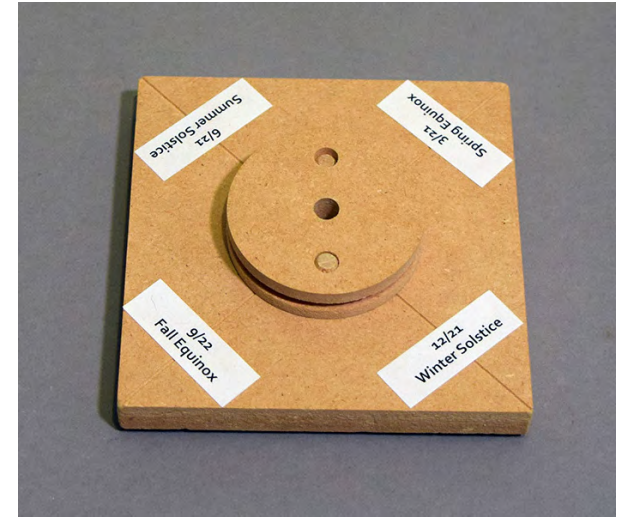
Parts included in the kit. We have put the season labels onto the base for you.

Sun assembly



I

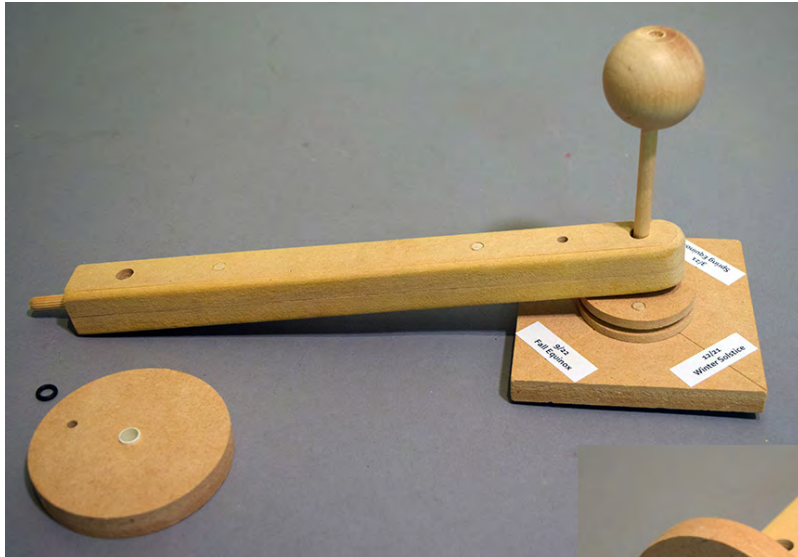
Put three hole notched wheel onto the dowels of the base. The hole in the center should be empty.



2

Put Sun assembly through hole at rounded end of Arm and push firmly into center hole of base.

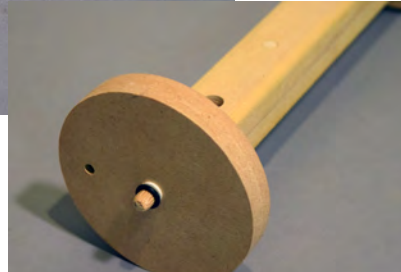




3

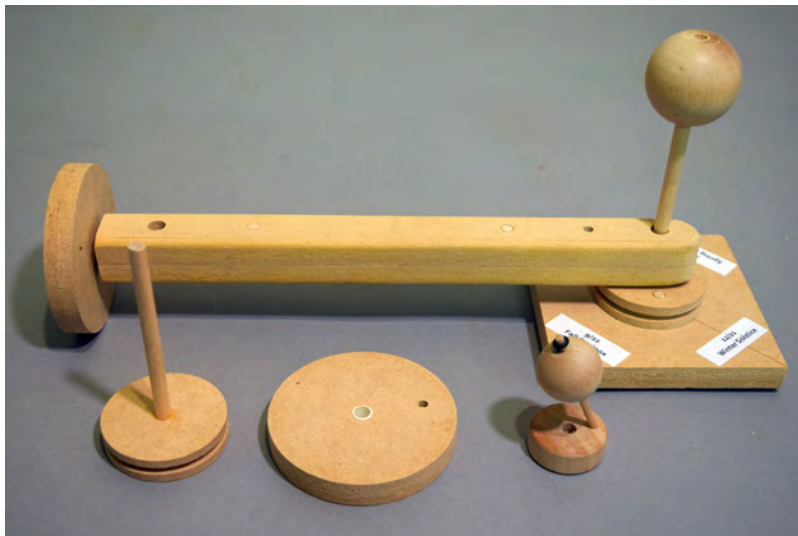
Remove O ring from end of Arm, put one of the Ride wheels on end and replace the O ring.

(detail below)



4

Insert Earth assembly into small hole in the Earth base. (You may need to sand the dowel slightly. It should fit tight so as to not fall out. You can add a drop of glue if it loosens too much.

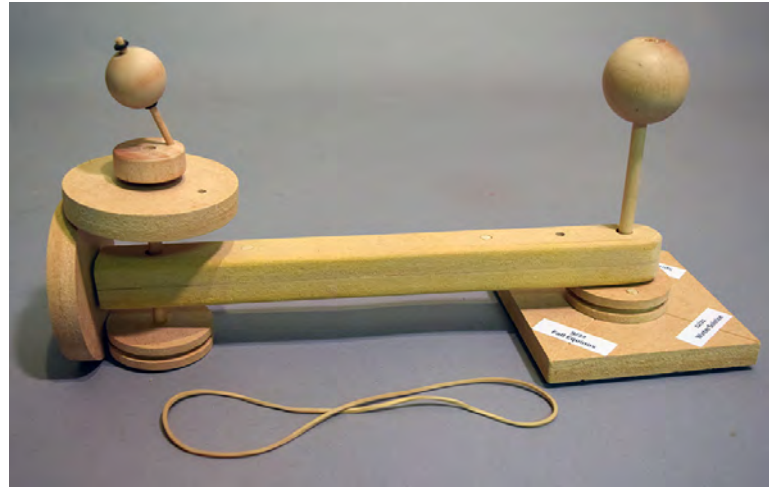


5

Put hole in end of Arm over the Drive wheel assembly and drop the other Ride wheel onto the dowel which is sticking up. There will be just enough dowel left to *carefully* put the Earth assembly and base onto the top of the dowel. It should be snug. Try twisting back and forth *instead of* pushing straight down. Almost like screwing it on.



Your Orrery should look like this now.

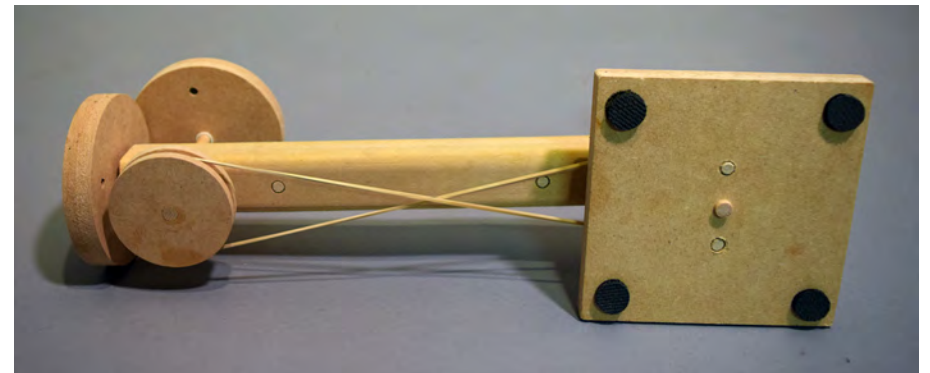


6

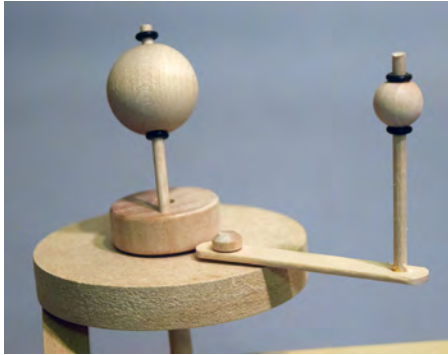
The #117A rubberband goes around the notched wheel at the base of the sun, is twisted once and then goes into the groove of the Drive wheel.



From the bottom it should look like this



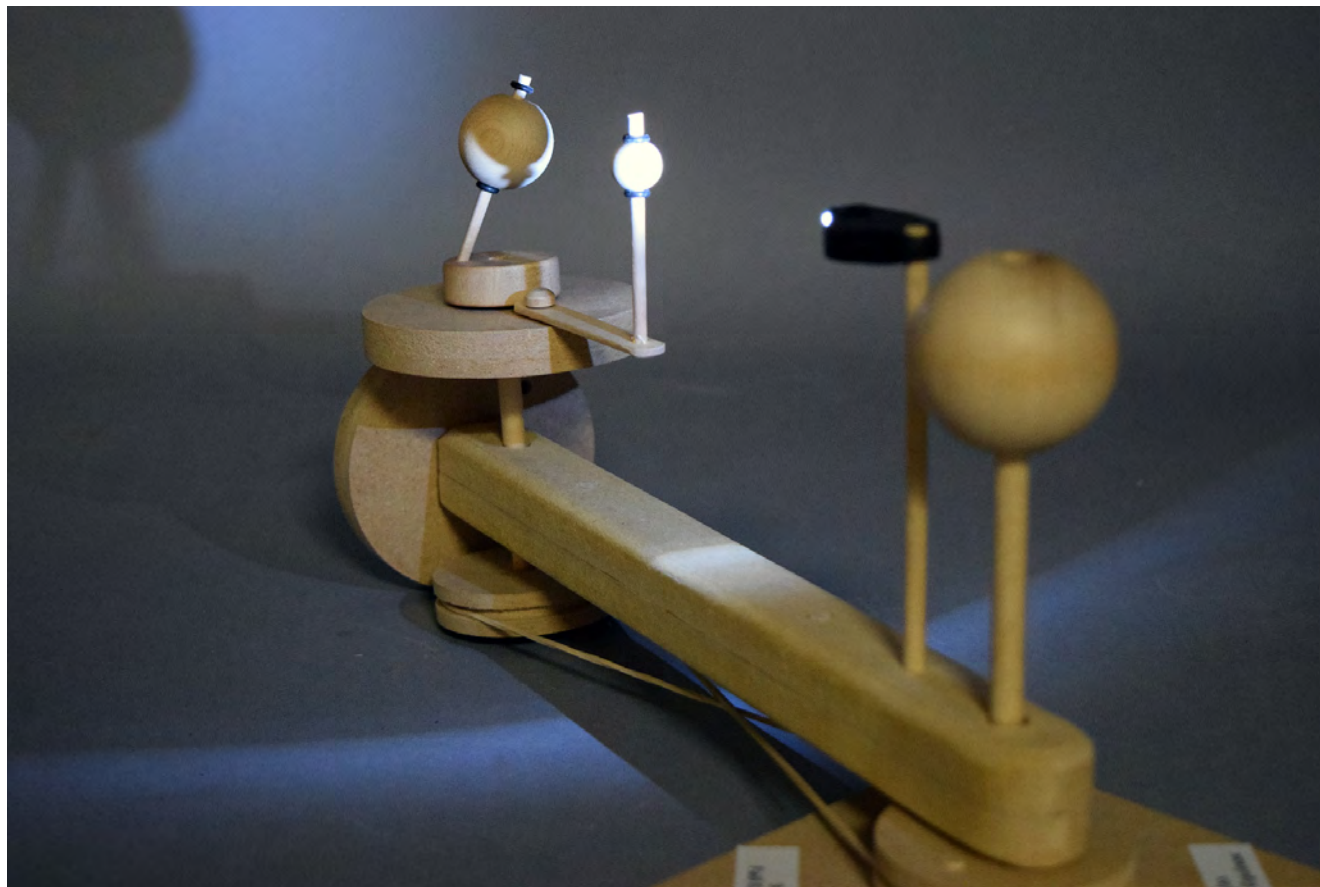
7



Final details:

Attach the Moon assembly with the small peg into the hole on the Ride wheel below the Earth.

The sun Light assembly goes into the hold on the Arm in front of the sun. There is a small switch on the light to turn it on or off.



As you move the arm COUNTER CLOCKWISE, the Moon will revolve around the Earth and you can demonstrate *Lunar and Solar eclipses, phases of the moon*, as well as understand the seasons due to the tilt of the earth on it's axis.