



Time / Cost Estimate

Time: Prep - 30 hr / Active - 10 min

This activity requires extensive prep time to construct the track by aligning the magnets and gently hammering them into place. A conservative estimate for this process is between 20 to 30 hours of labour. However, once the track is constructed, preparing the model train with the superconductor disks will take less than 10 minutes. Although there is a high initial time commitment, the track and train will last indefinitely.

Initial Cost: \$742.00 - \$842.00

The initial cost of the activity is high because of the large number of magnets required to build the track. The magnets are cheapest if ordered in bulk online. The superconductor disks will have to be ordered online or taken from an existing Meissner effect demonstration kit, which can be ordered from most science education catalogues.