



YOUMAGINE

Perpetual Motion da Vinci Style III

By: (gzumwalt)

License: Commercial use is allowed, you must attribute the creator, you may remix this work and the remixed work should be made available under this license.

Published on: Jun 05, 2019

Located at: <http://www.youmagine.com/designs/perpetual-motion-da-vinci-style-iii>

Short description:

Another da Vinci design.

Description:

<https://www.youtube.com/watch?v=gUQPY8zpeMY> <https://www.youtube.com/watch?v=yCvOido6Hhg>
"Perpetual Motion da Vinci Style III" is the third "perpetual motion machine" in my series of Mr. da Vinci's "overbalanced wheel" models, the latest two designed for a classroom environment. I was asked to create these two new additions (plus a few more) in order to inspire classroom discussion of Mr. da Vinci's work, and was excited to convert his two dimensional designs into these stylized three dimensional models for the classroom! As in my previous version "Perpetual Motion Davinci Style II", "perpetual motion" begins when the model is tilted backwards causing a magnet to activate a reed switch which in turn activates a motor that turns the overbalanced wheel via a rubber band transmission. And "perpetual motion" ends when either the battery expires, the rubber band breaks, the motor gives out, or by simply tilting the model forward and tapping on the back near the reed switch to disengage the magnet. In other words, it's still just an illusion. As usual, I probably forgot a file or two or who knows what else, so if you have any questions, please do not hesitate to ask as I do make plenty of mistakes. Designed using Autodesk Fusion 360, sliced using Cura 4.0, and printed in PLA on an Ultimaker 2+ Extended and an Ultimaker 3 Extended.

If you can, please use the online documentation found at <http://www.youmagine.com/designs/perpetual-motion-da-vinci-style-iii> because those may have been updated. Also, there you can interact and provide praise and/or feedback.