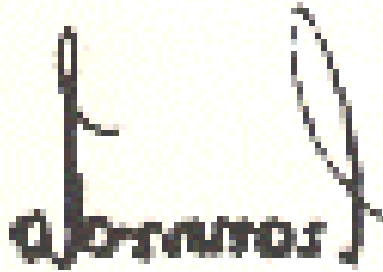# Mirror Writing

The Mirror writing exhibit has been constructed in the past using a chalk board and a large mirror it allowed the patrons the chance to test their skills at writing backwards like LEO. The museum of Science in Boston have done some work on this topic, and the bookstore carried a simple 'write backwards' kit. (office (617)589-0100 or Larry Bell (617)8890-282)

a simple program could be used to flip writing allowing patrons to see what it would look like had leonardo written it.

-easy portable station dealing with the way he wrote.
-might be connected with the language section.

The Human Body

Contacts
Holograms   VOXEL   Danny Burman   (801)583-5970
                                                www.voxel.com
SCI run computer dept.   Chris Johnson
                                                Greg Jones   (801)587-9825
Professor at the University of Utah   Kurt Albertine   (801)581-5021
                                                kurt.albertine@hsc.utah.edu

-compare the differences between his drawings and actuality
-computer program with the ability to explore the way the body works
-show what medicine during his time was like. (ie bleeding) along with a timeline of
medical advances. (uofu hospitals help)
-most modern medical advances.
-research the possibility of computer animation.

S   Because most of the exhibit would be computer operated it could take up minimal
        space
A   All the technology is available it would just require some computers and some
        organization of interesting information.
D   Would require medical knowledge, and computer skills, but a program designed
        to do just what we want could be developed, or created using an older program
        without too much changing.

**This exhibit would focus on the studies that Leonardo documented, and compare these with
modern findings. There might be a large "operation" game, as well as other interactive
games.**
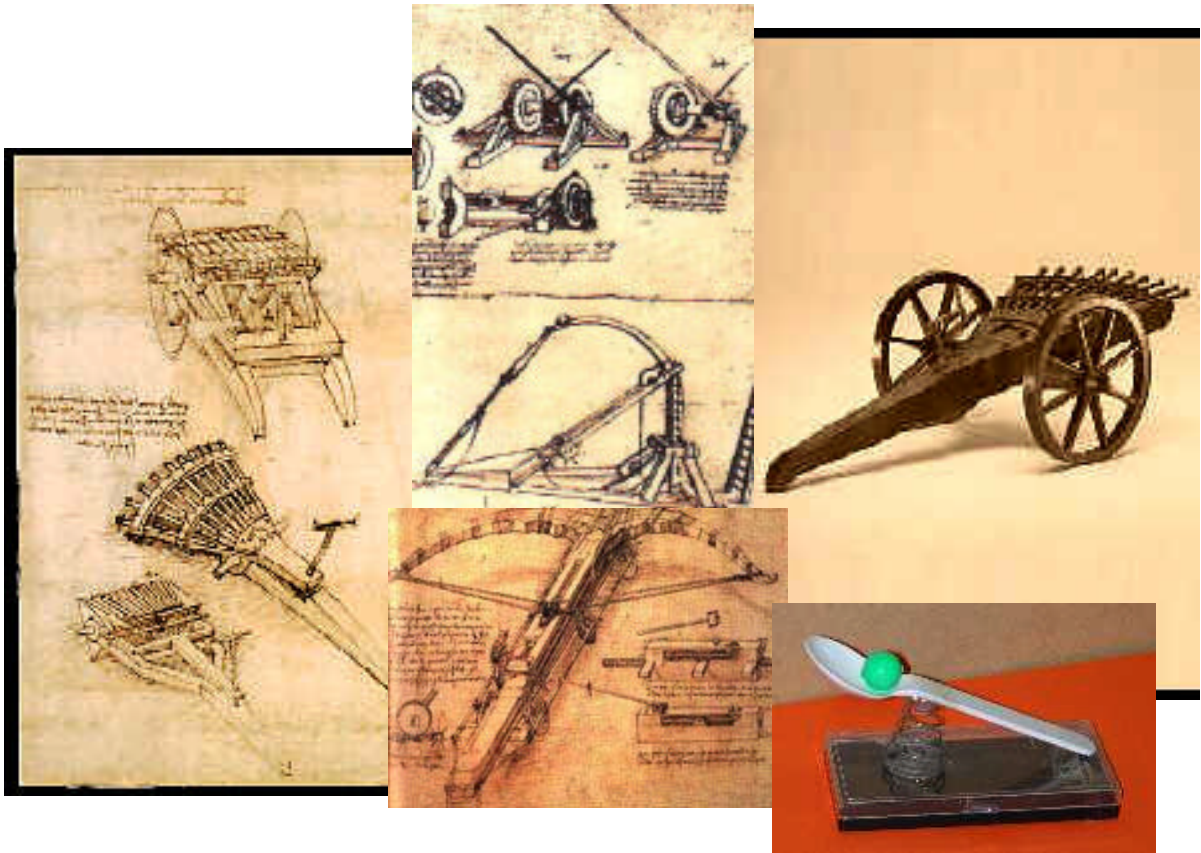
Leo's Weapons

This will be a very interactive exhibit with a ton of potential. There could be interactive catapults and cross bow models giving the patrons the chance to change the projectile and power, aiming at a certain point on the floor or wall. There might also be neat interactive computer games giving the patrons the chance to do about the same.

Contact
Professor Roemer (mechanical engineering dept.)
Professor Meek
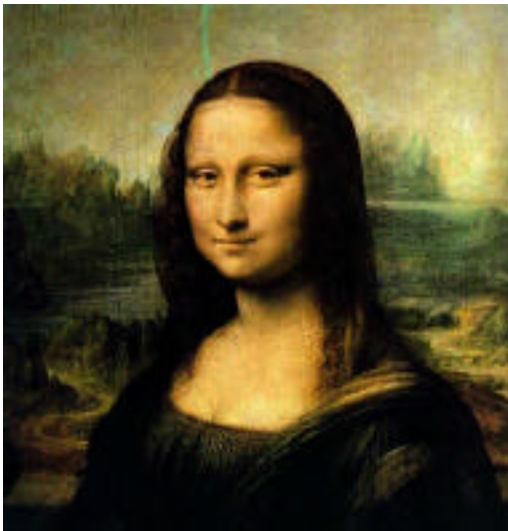Mattel Toys   1.800.524.TOYS

-section with a number of his weapons, showing the differences between his and what others were using.
-possible ability to shoot a canon (maybe an air canon) trying to hit a target.
-Nerf weapons

Morph you with the Mona Lisa

-simple morph program
-find every interesting fact about the mona lisa (the time it was stolen in the early 1900's)
-look at what it was made with paper, paint.
-a BIG Mona Lisa made with digital shots of patrons

S A small area, or a large wall.
A all the technology is readily available.
D could be organized with a minimal amount of developing.

There are a number of programs out there ranging from cheap shareware to expensive professional quality programs. www.morpheussoftware.net

The software exists also to create collages of museum patrons. This impressive addition can allow the patrons to find themselves in the collage.

Experiment with a parachute.

-build your own parachute
   -use leo's design, or design your own
-drop different weighted men, and time how long it takes to drop, possibly down a
         clear tube.
-look at how parachutes have developed   www.parachutehistory.com
-try on a parachute (army reserves) this would be accomplished by hanging in parachute
harness.

http://inventors.about.com/library/inventors/blparachute.htm

S   A big model could be suspended from the ceiling, and a parachute station could
        be rolled out on a cart.
A   Obviously this could be readily available.
D   would be a rather simple exhibit, and depending on the level of information
        presented, maybe a film, or a interactive computer program.
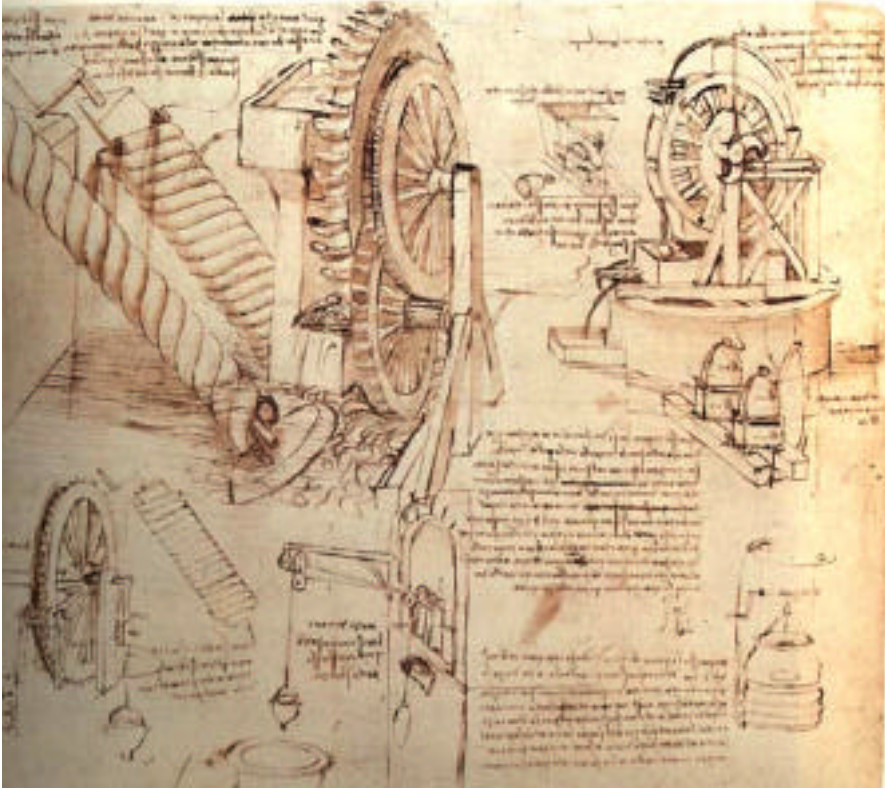
What water power can do.

-Full size water screw that is motor driven or powered by people.
-Water turning a water wheel powering some other device.(clock)
-This device could power a motor, or translate the motion into a understandable measure
ie light a light bulb for x amount of minutes, or lift a gallon of water up in the air.

S   Could require a lot of space, demanding everyone's attention, or could be put in a
        corner, or made into a self contained model.
A   Components of the wheel are readily available, just needs to be designed.
D   Depending on size could range from a one man intricate model to a 10,000 dollar
        main exhibit. Possible outdoor exhibit

-Modern day water power.
        Focus on what hydro electric power does today.
        -on a computer screen one could look at dams and other sources of water power,
        ie waves.
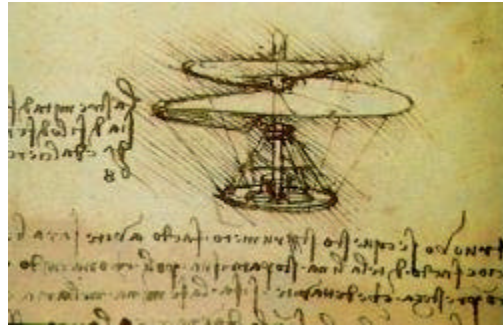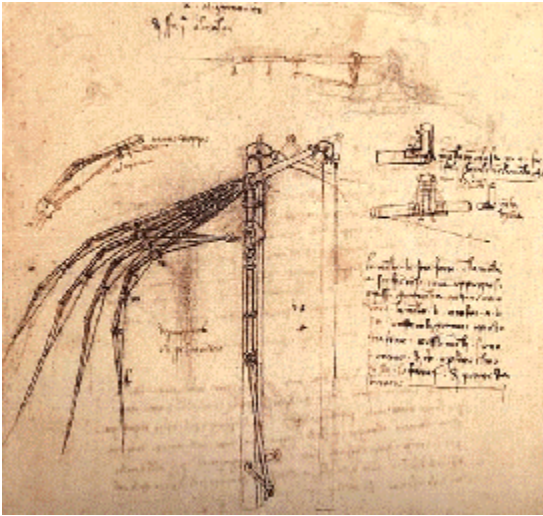
Leonardo's World of Flight

This exhibit lends itself to be very interactive, allowing patrons to play with models, and fly their own planes. Depending on the location of this exhibit kids could throw their planes off the second level, or see who could throw it the furthest.

-Paper airplanes
-Concept of a helicopter
   (Doug Wagstaff)
-How a bird flies
   -humming bird
   -eagle
   -airplane wing
-what others thought

S   could be built in a rather small space with a model of Leo's helicopter(many have been built in other museums)
A   model could be built or purchased (not sure yet from who)
D   not too difficult many exhibits across the world deal with the idea of flight, and Computer programs exist that can be interactive.