

## aerial screw it all together



ELIZA: Congratulations, you passed all of the tests! As a reward, everything you have done can be assembled into a time machine which will whisk you into the future to experience all the wonders that were invented after your time!

[Da Vinci, gratified, builds the time machine]

ELIZA: Marvelous! But why did you build it into a gyrocopter??

Da Vinci: Ah, now it's **your** turn to solve a test! The answer is contained within the aircraft itself.

To get the answer you will have to build your own gyrocopter. Use the base of the gyrocopter to get the input letters. Then use the sails like a decoder ring to turn those input letters into the solution.

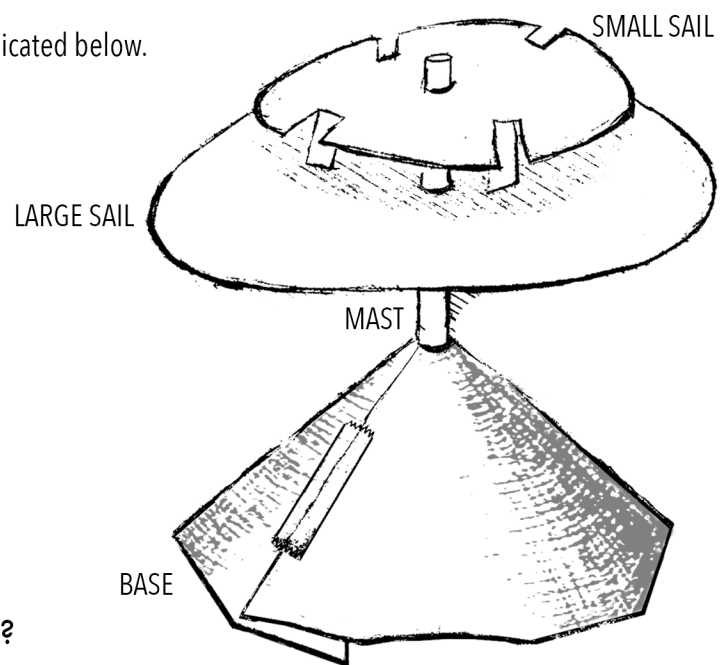
### Step 1 - Gather the inputs:

1. Assemble the base and mast of the gyrocopter (Part A of the blueprints on page 2).
2. Line up the head and feet from the gyrocopter base with head #1 and feet #1 on page 3. The first input letter will then be indicated. Enter it in the first box at the bottom of this page.
3. Repeat for the other 8 letters.

### Step 2 - Decode to get outputs:

1. Cut out the large and small sails and put them on the mast (Part B of the blueprints on page 2).
2. Take the first input letter from Step 1, and find that same letter on the large sail, in the array of letters closest to the mast (ignore all of the numbers on the disc).
3. Point the first bent-down limb (#20) directly at that input letter.
4. The other "chosen" arm that comes from the same shoulder will point to a letter at the edge of the large disc. That is the output letter.
5. Repeat for the remaining 8 letters, using the other limbs in turn, as indicated below.

	1	2	3	4	5	6	7	8	9
INPUT	T	H	E	A	N	S	W	E	R
Decode using limb #	20	5	15	10	20	5	15	15	10
OUTPUT	S	E	I	L	F	E	M	I	T



Completed gyrocopter

Why **did** he build the time machine into a gyrocopter?  
His answer is quintessentially da Vincian.

**TIME FLIES**