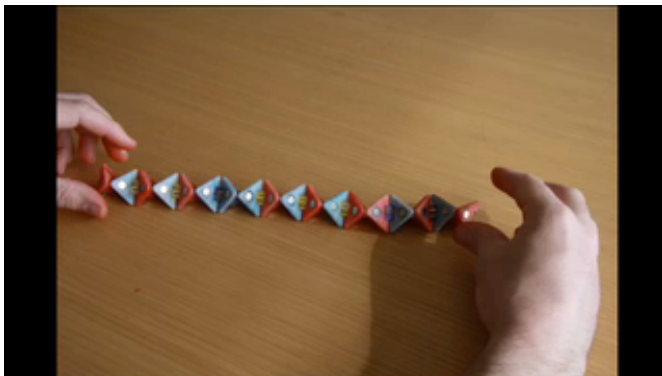


BOYP

the puzzle chain construction kit for the genetic age. chain is a sequence of hinged tetrahedral shapes. chain forms any 3d object through folding. genetic code is an alphabetic string formed from four letters. genetic code unambiguously describes folds and the final shape. genetic codes can be sent and traded. unfolded chains can be sent and folded form later discovered.

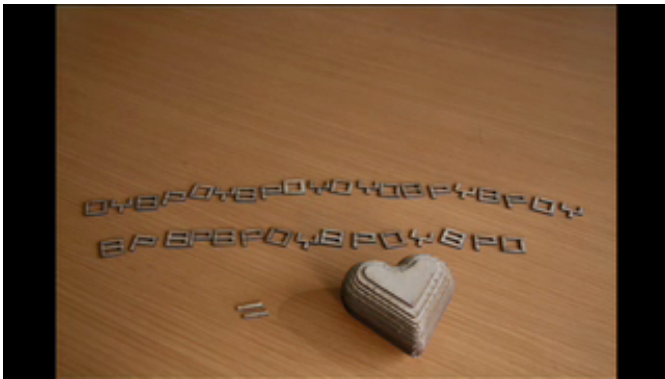
PARTS AND CHAIN

the chain is comprised of two tetrahedral parts blue and orange with same geometry but different magnetic patterns on their faces, and two connectors yellow and purple that form hinge joints on the tetrahedral parts. magnetic polarity on faces determines direction of fold.



CONCEPT

1. *encoding* -- turn any 3d object into genetic code comprised of four letters



2. *transcribing* -- genetic code describes physical chain of four components one letter per component that plug together with letter being first letter of component color



3. *folding* -- once plugged together the physical chain then only folds into original object





APPLICATIONS

construction and modeling -- build and model structures

code exchanging with friends -- collect and trade codes

surprise gifts -- discovered after transcription and folding

jewelry -- heart discovered after folding necklace/bracelet

puzzle -- try to figure out winding to build particular object

education -- learn about protein folding and genetic codes

fiddling -- mindless building or play

MANIFESTATIONS

magnets in faces -- fun magnetic feeling

male / female physical plugs on faces -- inexpensive to manufacture