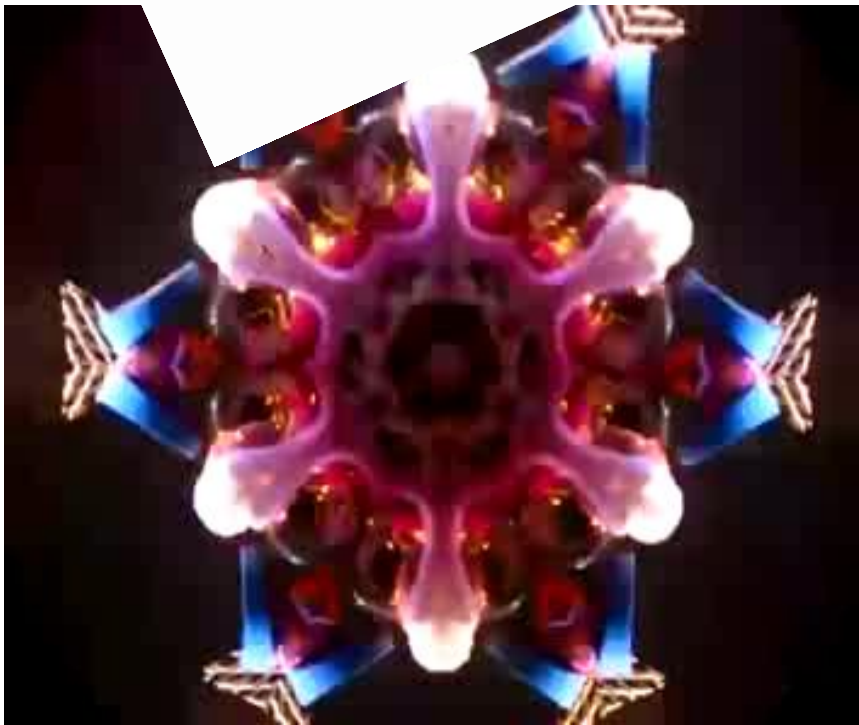
Kaleidoscope

History

Sir David Brewster began work leading towards invention of the kaleidoscope in 1815 when he was conducting experiments on light polarization. His initial design was a tube with pairs of mirrors at one end, pairs of translucent disks at the other, and beads between the two. Initially intended as a scientific tool, the kaleidoscope was later copied as a toy. Brewster later believed he would make money from this popular invention; however, a fault in his patent application allowed others to copy his invention.



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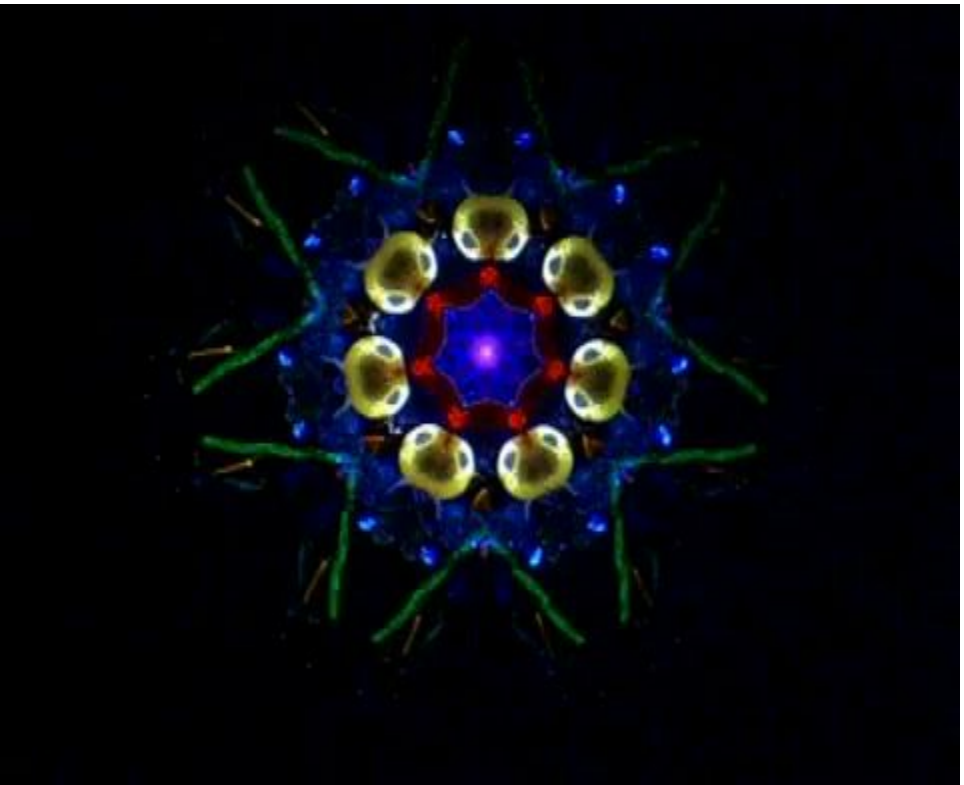
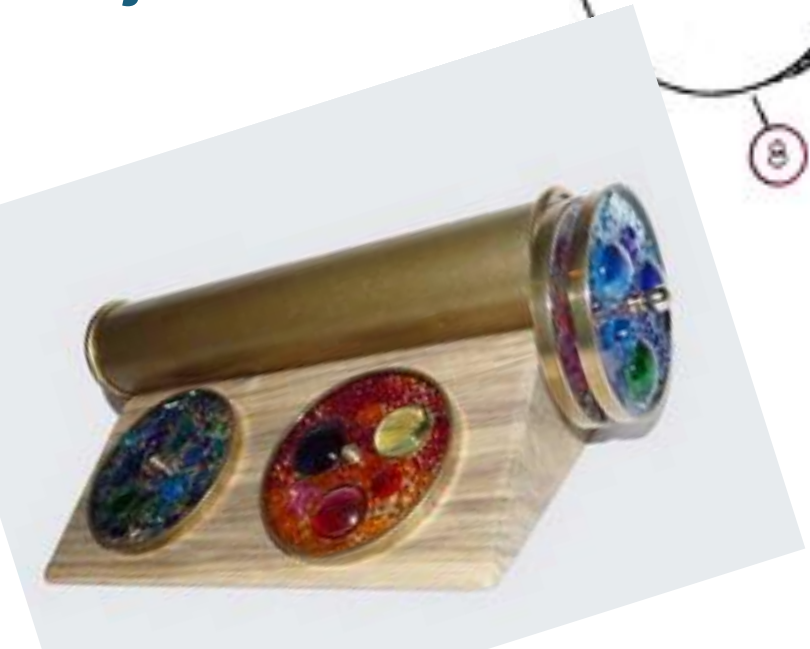


- A Kaleidoscope operates on the principle of multiple reflection, where several mirrors are together.

- Modern kaleidoscopes are made of brass tubes, stained glass, wood, steel, gourds or almost any material an artist can u

The part containing objects to be viewed is calle the 'object chamber' or 'object cell'.



Object cells may contain almost any material.

- Sometimes the object cell is filled with a liquid so the items float and move through the object cell in response to a slight movement from the viewer.

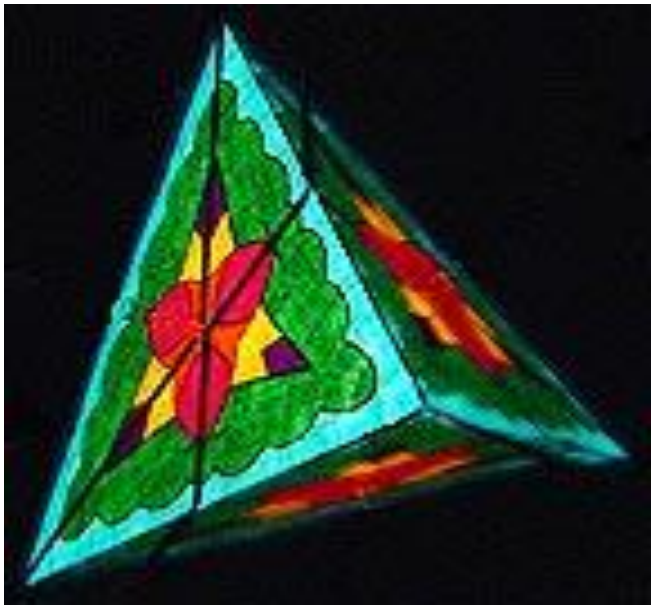
Kinds of kaleidoscopes

A pentagonal dodecahedron

A hexahedron (cube)

A true sphere

A tetrahedron

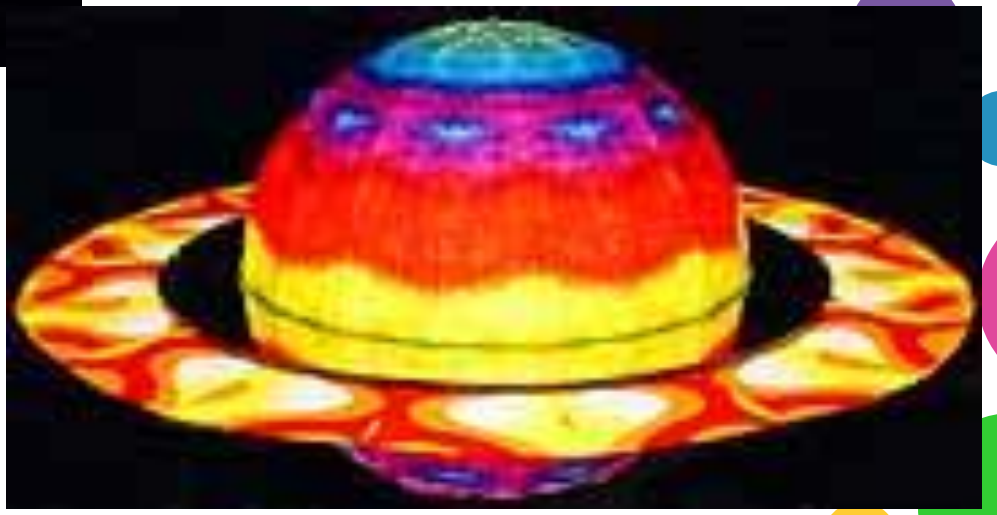


An icosahedron

A spiky icosahedron

A torus

The next kaleidoscope is named "Saturn's Ring."



Another cube

Industry

- Most kaleidoscopes are mass-produced from inexpensive materials, and intended as child toys. At the other extreme are handmade pieces that displ craftsmanship.

- Craft gallerie
  often carry a
  few
  kaleidoscope
  while other
  enterprises
  specialize in
  them, carryir
  dozens of
  different type
  from differen
  artists and
  craftspeople

- Понравилась презентация? Скажи спасибо! Рада помочь! http://vk.com/kfurman