



The magical patterns or the hand-made kaleidoscope



Sometimes, when you change a mirror at your bath-room, thin glass strips remain. What can you do with them? To make a classic kaleidoscope – it is not so complicated.

Surely, you can buy a new toy, but the hand-made one is really much better, since it is made from your heart and with fascinating, magical feelings from your childhood.

It would be seem a simple tubule consisting of the colored glass bits inside it while it cause a lot of delight for you and your children.

For the kaleidoscope making you will be needed:

- A glass strip
- A carton tubule
- A scotch tape
- Two caps
- Three round pieces of glass
- Shards of transparent colored glass
- A paper for the kaleidoscope ornamentation



Cut the glass strip with glass cutter into three equal parts. Put them to make a triangle and fix it with the scotch tape,

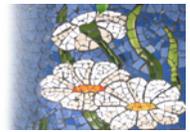


Take the carton tubule with an internal diameter, which fit the glass triangle size. It can be a paper towels bobbin or a roll of foil. Put the glass triangle inside the tubule.

Advice: If you didn't find a needed tubule, wrap the glass triangle with a sheet of a carton, e.g. a notebook cover, and fix it with the scotch tape.

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Take two plastic caps, which more or less fit the tubule diameter. Cut big hole in one of them and put inside it a round frosted glass and then fix it with quickly drying glue. If you don't have the frosted glass, don't worry – spritz a hairspray on the transparent glass or "dirty" it with a transparent glue.



Put the small shards of transparent colored glass over the frosted glass and the second transparent glass above them. Since the shards of transparent colored glass have to move freely between two glasses, do not need to glue or to press the second glass.

Advice:

- *The glass can be substituted with a transparent plastic from a gift package.*
- *The shards of transparent colored glass can be substituted with transparent plastic or transparent beads.*



Put the cap with colored glass on the butt end of the tubule and fix it with the scotch tape.



The similar operation must be done with the second cap while the round hole here must be twice less and has to be covered only with one glass. Fix the cap on the second end of the tubule.



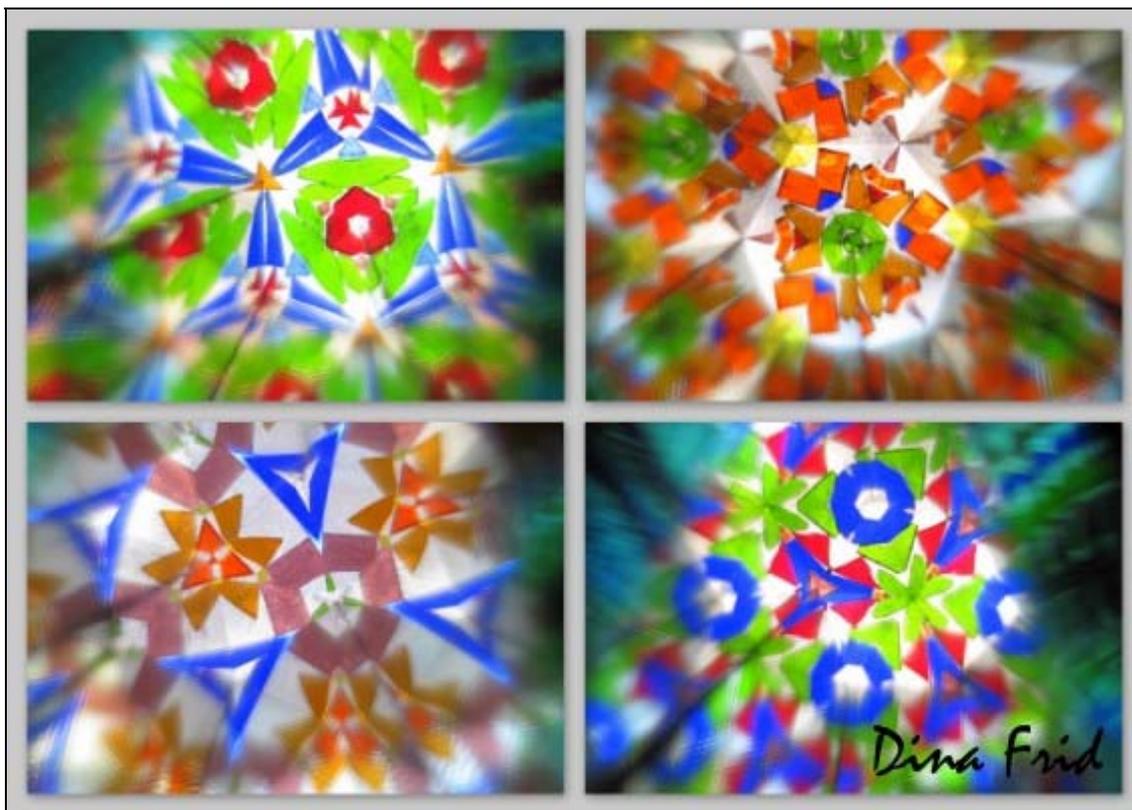
Herein, the most creative part of the process begins, i.e. the kaleidoscope ornamentation - no fantasy limits. The toy can be glued over with any picture from children journals, colorful napkins, painted via a stencil or with colors. I preferred a cheerful wrapping paper and glued it over the tubule with usual glue.



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Check the kaleidoscope - turned out beautifully. Patterns are replaced one by one, and never repeat. Turn the kaleidoscope slightly and the pattern changes being better than previous. It is such an eye-catching!