

1/20/17

Friday Activity [Design]

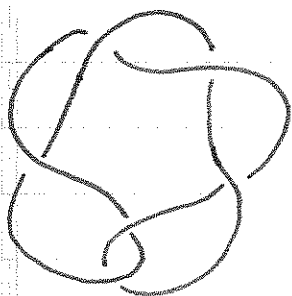
- ① Working Together, devise a notation for communicating the shape of a planar knot diagram.

Rules: ① your notation should consist of a string of numbers and/or letters.

② Don't tell anyone outside your group what your set-up is.

Goals: (1) Given a diagram, it should be easy to figure out the notation.
(2) Given the notation, you should be able to reconstruct the diagram, up to equivalence.

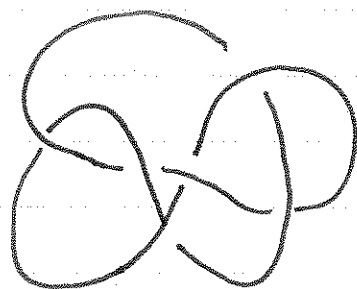
To practice, here are three 6-crossing diagrams.



L_1



L_2



L_3


Friday Activity [check]

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- (2) Now split up.
 - (A) Design a 7 crossing knot diagram however you like.
 - (B) Find the notation you have designed for this new diagram.
 - (C) Trade ~~D~~ your notations only with your partner.
 - (D) Use the notation your partner gave you, find the knot diagram.
 - (E) Compare results with the originals, and discuss.

Friday Activity [Puzzle!]

③ (A) On a fresh sheet of paper write down the codes for the 3 b crossing knots in some random order.

(B) Trade this piece of paper  with another group without explaining anything!

(C) For the three codes you just received, which goes with which knot?