Name(s)_____ Period _____ Date _____

Activity Guide - LEGO® Instructions

Challenge

Create instructions your classmates or a family member could use to reproduce a simple arrangement of LEGO® blocks. You can substitute other blocks or items as needed, you could even use a collection of coins, silverware, etc. Use your imagination. Do the following:

1. **Create Your LEGO Arrangement**
   You will be given 5-6 LEGO blocks which you should connect into a single arrangement. Try to choose something interesting or challenging to test your instruction-giving abilities.

2. **Record Your Arrangement**
   Record your arrangement somehow so you can recall it later. Make a simple drawing, take a photo, etc. You'll want an exact record, so make sure you pay attention to color!

3. **Write Instructions**
   In the space provided below, write a clear and precise set of instructions your classmates could follow to build this arrangement on their own, without diagrams or pictures. That is, your instructions may only use words, so you cannot use pictures to help you.

Test Your Algorithm

Exchange algorithms and blocks with another group and try to follow the instructions provided to create the correct arrangement. Afterwards, confirm whether you succeeded by using the other group's image.

Reflection

Once you've had an opportunity to test one another's instructions, respond to the following reflection questions.

- Were you always able to create the intended arrangement? Were your instructions as clear as you thought?

- Why do you think we are running into these miscommunications? Is it really the fault of your classmates or is something else going on?

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