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|  | **Activity Guide - LEGO® Instructions**  |  |

**Challenge**Create instructions your classmates could use to reproduce a simple arrangement of LEGO® blocks.

You are given 6 Lego blocks (4 each white 2X6 bricks and 2 each red 2X8 bricks) located initially side-by-side or in a pile.

Do the following:

1. **Create Your LEGO Arrangement**
Using the 6 LEGO blocks described above, you should connect these blocks into a single arrangement **of your choosing**. 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.

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**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.**

## ReflectionOnce 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?