

## Read It/ Build It

**Grades:** 2,3

**Team Size:** 1 -2 participants

**Duration:** 30 minutes

**Supervisors:** Maisha Ostergren and Patricia Pacania

Welcome to Read It/Build It. This is a new event to WESO this year so thank you for your participation.

### Summary Description

All teams will be given an identical set of objects and instructions. Teams will attempt to build a “picture” from the objects based on the given instructions. The team with the most pieces placed correctly wins. This event tests each team’s ability to understand and follow written or graphical instructions.

The “picture” is a design layout of individual objects installed on a flat surface. Builders will not see the “picture”. The builders will construct the “picture” based on the set of instructions provided.

Within the objects and/or instructions there will be an Advanced Task built into the event. All teams will have the same access to this Advanced Task. The idea is that this task will present an advanced challenge to the team’s skills, abilities and understanding. The Advanced Task will not be identified or set apart in any way. This way it will not disrupt the flow of the event.

### Concepts Covered

- Spatial orientation – location, orientation, and relative position to other objects
- Scientific Literacy -- ability to understand and follow written or graphical instructions

### Rules and Expectations

1. Teams will have a total of 30 minutes to complete the event.
2. Start time, End time, and a Five-Minute warning will be clearly indicated.
3. After 30 minutes all teams will be escorted back to the staging area.
4. **ONE (1)** set of all materials necessary to compete will be provided to each team on event day.
5. Objects used for this event are EVERYDAY items – any shape, any color, any dimension, any size.
6. 2<sup>nd</sup> grade may have as many as 12 objects; 3<sup>rd</sup> grade may have up to 15 objects
7. Teams will use materials to build a “picture” based on a set of written or graphical instructions.
8. Teams should correctly write “TOP” at the top of the paper. It should be VISIBLE to the Event Supervisors.
9. Teams are responsible to write the NAME of the SCHOOL VISIBLY on the build space.
10. **FAILURE TO COMPLETE STEPS 8 and/or 9 will result in ZERO (0) points being awarded to the team.**
11. NO other writing, drawings, illustrations, or numbering is allowed on the build space.
12. Builders must rely on their understanding and interpretation of the posted instructions to build the correct “picture”.

13. Instructions will be posted in large print on easels in front of the build space. Instructions will be provided in the bag of building materials as well.
14. The instructions will be written to use all the materials provided.
15. Teams will not need to bring anything to the event space.

### **Scoring**

The team that builds the “picture” nearest to the original is the declared winner. What does this look like?

There are three possible points for each object in the “picture”

- One point for location
- One point for orientation
- One point for its relativity to other objects

The result is that the team with the most correctly placed objects will have the highest score and be declared the winner.

Ties will be broken using the Advanced Task.

Advanced Task -- One object or one instruction will present an advanced challenge to the teams that will require them to “mentally stretch” to correctly place the object in the “picture”.

### **Practice and Preparation**

Practice should involve the teams building with ANY RANDOM objects based on a set of written or graphical instructions – making a sandwich, building Legos, building an IKEA anything. The goal is to get the team comfortable interpreting any set of instructions correctly.

Ask questions – What are you asked to do? How many steps are there? What words do you not understand?

You want your team to arrive at the event with the confidence that they will be able to comprehend the instructions they are given and construct or build the “picture” correctly.

Vocabulary – a sample vocabulary list will be provided.

Start with a small number of objects and add more as the team becomes proficient.

There is no special equipment required for this event. Practice using any and all manner of objects. The more variation the better. Add to the sample vocabulary list with your practice items.

### **Event Questions**

Event Coaches should submit any questions about the event to [weso.events@gmail.com](mailto:weso.events@gmail.com). Please enter the event title in the subject line. Answers will be posted on the WESO Blog. You can sign up to receive blog posts at <https://wesoscience.org>.