A challenge!

Can you follow instructions?

Can you GIVE instructions?
Lego Challenge!

Tell me about the most elaborate thing you have ever built using Legos.
Building with Legos

Objective: Students will use Legos to build a structure and write a detailed procedure for the construction of that structure.

Science skill: Criterion B – Inquiring and Designing
iii. describe how to manipulate the variables, and describe how data will be collected – write a clear procedure

ATL skill: Communication - Use appropriate forms of writing for different purposes and audiences
Building with Legos

Directions: Use the Legos provided to build a structure. Then write a step by step procedure so that another student can replicate your structure exactly.

Step 1: Write Procedure – Fill this in and then write the procedure again on the “How to Build this Lego Structure” page. This is the page you will leave with the Legos.

Everyone: writes the procedure on their page.
One person writes it on the ½ page that stays at the table. Take your page with you to the next table.
How to Build a Structure with Legos

(How to write a procedure practice)

**Objective:** Students will use Legos to build a structure and write a detailed procedure for the construction of that structure. This allows the students to focus on identifying the necessary components of a well-written procedure. Students will be given the opportunity to test the accuracy of their procedure and revise their work based on the findings and suggestions of their peers.

Science skill: Criterion E – Inquiring and Designing - **iii. describe how to manipulate the variables, and describe how data will be collected – write a clear procedure**

ATL skill: Communication - Use appropriate forms of writing for different purposes and audiences

**Directions:** Use the Legos provided to build a structure. Then write a step by step procedure so that another student can replicate your structure exactly.

**Step 1:** Write Procedure – Fill this in and then write the procedure again on the “How to Build this Lego Structure” page. This is the page you will leave with the Legos.

Your structure name: ____________________________

1. ______________________________________________
2. ______________________________________________
3. ______________________________________________
4. ______________________________________________
5. ______________________________________________
6. ______________________________________________
7. ______________________________________________
8. ______________________________________________
9. ______________________________________________
10. ______________________________________________

**Step 2:** Take apart your structure and leave the procedure page for another student to follow it.

**How to Build this Lego Structure – Procedure Page to leave with the Legos**

Structure Name: ____________________________

**Procedure:**

1. ______________________________________________
2. ______________________________________________
3. ______________________________________________
4. ______________________________________________
5. ______________________________________________
6. ______________________________________________
7. ______________________________________________
8. ______________________________________________
9. ______________________________________________
10. ______________________________________________

Add more procedural steps if needed:
Build a structure — Put up the divider, do not look to see what another group is building!

Write Procedure — Fill this in on your page and then one group member needs to write the procedure again on the “How to Build this Lego Structure” page. This is the page you will leave with the Legos.

Take the structure back apart!
Building with Legos

**Build a structure** – Put up the divider, do not look to see what another group is building!

**Write Procedure** – Fill this in on your page and then write the procedure again on the “How to Build this Lego Structure” page. This is the page you will leave with the Legos.

**Take the structure back apart!**
Building with Legos

When the timer goes off, you must be ready to move to another table!
Building with Legos

1. Open the bag of Legos

2. Find the procedure

3. Build the structure

Be sure to reflect on the process as you build and then answer the last question on your student page when you complete the structure.

Leave the structure built!!
Building with Legos

Go back to your first table – is the structure exactly the same?

If it is – congratulations!

If not, ask the second group to see their reflection question (the last question).