

## Target Math Addition

Thank you for downloading the science and mathematics activity packet! Below you will find a list of contents with a brief description of each of the items. This activity packet contains all the information (including any handouts) you will need to run this activity in your own classroom or at a science festival.

Please note: some activities might require the need for a facilitator to be present to oversee the activity. Activities that require a facilitator will be clearly noted.

-Community Resources for Science



### ACTIVITY PACKET CONTENTS

1. Organizer Instructions for the person running the activity
  - Print suggestion: 1 for the facilitator
  - Includes information for setup prior to the event (e.g., materials prep)
2. Participant Instructions (tabletop sign/printout)
  - Print suggestion: 1-2 to put in a plastic sign holder
3. Activity Printout(s) for participants
  - Print suggestion: number of expected participants, plus any extras for participants to take home
  - Printouts needed for participants to do the activity (e.g., cutout templates)



# Target Math Addition

## ORGANIZER INSTRUCTIONS

**Grade(s):** 1-5

**Standard connections:**

- **CCSS.Math.Practice.MP1:** Make sense of problems and persevere in solving them
- **CCSS.Math.Practice.MP5:** Use appropriate tools strategically
- **CCSS.Math.Practice.MP2:** Reason abstractly and quantitatively

**Next Generation Science Standards:** Science and Engineering Practices

- **Constructing Explanations and Designing Solutions:** Generate and/or compare multiple solutions to a problem
- **Using Mathematics and Computational Thinking:** Use counting and numbers to identify and describe patterns in the natural and designed world(s)

**Objective:** Use addition to precisely reach the “target” number

**Activity overview and background:** Student-directed, 2-4 player game. Students will use addition and critical thinking to reach, but avoid going over, a target number. **An adult can model how to play, verbally demonstrating critical thinking skills.**

**Materials:**

- Beans
- Game boards
- Paper and pencil (optional)

**Setup:**

1. Each group starts with a blank game board and a handful of beans
2. Paper and pencils may be used for calculations or drawing diagrams, if needed

*Version 1 Directions:*

- Choose a target number between 25 and 55.
- Take turn placing a bean on one of the numbers on the board. Announce the total of the covered numbers. (For example, one player covers a 2 and another covers a 5, the total covered so far is 7).
- Each square can be used only once. The first player to reach the target number exactly wins. A player who goes over the target is out.

*Version 2 Directions:*

- *Choose a target number between 10 and 16.*
- *Put that many beans into the Bean Supply Box.*
- *Take turns, choosing a number and filling its bean spaces*



## Target Math Addition

- *Each time, count on to say the total of the numbers covered so far.*
- *Object: To work together to reach a total that matches the target number.*
- *Rule: If you go over the target number, the game is ended.*



## Target Addition: Version 1

1. Choose a target number between 25 and 55
2. Take turns placing a bean on one of the numbers on the board
3. Announce the total of the covered numbers
  - For example, one player covers a 2 and another covers a 5, the total covered so far is 7
4. Each square can be used only once
5. The first player to reach the target number exactly wins
  - But a player who goes over the target is out!



## Target Addition: Version 1

5	5	5	5	5
4	4	4	4	4
3	3	3	3	3
2	2	2	2	2
1	1	1	1	1

## Target Addition: Version 2

Game objective: To work together to reach a total that matches the target number

Rule: If you go over the target number, the game is over!

1. Choose a target number between 10 and 16
2. Put that many beans into the Bean Supply Box
3. Take turns, choosing a number and filling its bean spaces
4. Each time, count on to say the total of the numbers covered so far on the board



Target Addition: Version 2

3	3	3
2	2	2
1	1	1

Bean Supply Box