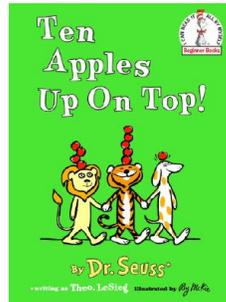


Ten Apples Up On Top!



Three friends balance counting and fun in this silly Beginner Book by Dr. Seuss and illustrated by Roy McKie. When a lion, a dog, and a tiger meet up, they soon discover that they can each do different things while balancing apples on their heads. Let's explore balance and see who can build the tallest "apple tower"!

Materials: Ten Apples Up On Top! by Dr. Seuss DUPLO bricks

Hula hoops 4 DUPLO Base Plates Measuring Tape 10 "DUPLO Apples"

Intro: Review rules and procedures for LEGO Engineering. Introduce the book "Ten Apples Up On Top. Set the stage for listening by asking an "I wonder" statement based on the cover illustration – i.e. " I wonder how long they can leave those apples on top of their heads? Which fruit do you think would be the easiest to balance on your head? Why?" **Read aloud and** discuss the story. **Ask questions...**

- Which animal tried balancing one apple on his head?
- Who joined the lion and had two apples on his head?
- When dog had four apples, what did he try and do?
- Who had five apples and was in the tree?
- How many apples did lion, dog and tiger have on their heads when they were skating?

- How many apples did they have when they were skating and drinking milk?
- Why did the bear chase them with the mop?
- What did lion, dog and tiger use to stop the birds and bear from taking their apples?
- What did lion, dog and tiger ride to get away?
- What did lion, dog and tiger run into?
- What happened to the apples?
- Describe what it looked like when the apples landed.
- Who all had apples on their heads?

Challenge: Each group will be responsible for ***building the tallest tower they can – one that will balance 10 DUPLO apples on top!*** How will they do this? How will they make their tower steady? How will they know the apples will balance on top? Tell students that they will be able to “borrow” a DUPLO apple so they can understand how it will fit on top of their tower. Explain that when time is up, each group will take turns balancing all ten apples on top. Say that you will use the tape measure to see how tall each tower is. Record the heights of each tower plus apples and see who the winner will be!

Build: Divide students into four work groups. Have groups work together to build a stable, steady tower of DUPLO bricks, using a large base plate for the base. Monitor each group by observation and asking pertinent questions: ***“Which will be a steadier tower? One with fat tower with lots of bricks or a skinny with less bricks?”*** Allow students time to build.

Debrief: Gather the students back together and discuss problems they had and how they solved them. Ask ***“What worked best?” “What didn’t work?” “What did you wish you had more of?”***

Presentation: Visit each group’s construction. The group presenting are the called the “Sitters” because they sit and describe what they’ve done. The teacher and the rest of the class are called the “Standers” because they stand around the presenters in a circle to observe and ask questions. The standers and the sitters change depending on the group presenting. Which groups built the tallest tower able to support all ten DUPLO apples?