Getting Started

Create 13 or more collections.

 Gather a variety of items to count. Examples: bottle caps, pasta, birthday candles, stones, glass marbles, hair ties, playing cards, game pieces, buttons, beads, craft sticks, foam stickers, pom poms, game pieces, paper clips, crayons, tiles, cubes, pattern blocks, etc.





- For experienced counters, gather collections that come in packages that can't be opened. (boxes of 100 paperclips, 12 pencils, 8 crayons, mini boxes of candy, reams of paper, etc.)
- Put each collection in a ziplock bag or plastic container.
- The size of your collections will vary with your students. For example:

Kindergarten collections might range from 25 (in September) to 150 or more later in the year. First graders may begin with counts of 50-100 and later to count 200 as they transition to counting by tens and ones. Second and third graders may begin counting 100-150 objects by ones. They will transition to counting large numbers (300 +) of objects by tens and ones and counting sets of various sizes (eg. boxes of 8 crayons).

Prepare other materials.

- Gather a collection of cups, bowls, egg cartons, etc. for students to use to organize their counts.
- Have hundreds charts available for younger students.
- Print recording sheets for students.
- Print anecdotal record sheets for teachers.

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Instructional Decisions to Consider	Notes		
What size count is appropriate for my students?			
Which students are ready to count sets of objects?			
How will I group my students?			
Individual or pairs?Based on social skills or math skills?			
How often will we count collections? How much time will we spend for each session?			
What are the social goals for the lesson? Examples:			
 Count with my partner. (Make decisions about where to work, how to count, how to record) Stay on task. 			
What are the mathematical goals for the lesson? Examples:			
 Keep track of the items counted. Record efficiently. (Represent with tallies, x's, or circles, rather than drawings.) Record in a way that shows how you counted. Count efficiently. (Use groups to count.) Decompose numbers to count. (Counting by 10s and 2s rather than 12s) 			
What do I want to pay attention to as I observe students?			
How will I ensure that I observe all students over time?			
Social Challenges			
 Students may have difficulty staying on task. Students may have difficulty working with a partner or sharing the task. 			
Math Challenges			
 Students may get distracted by the items themselves. They may sort objects by color or size before they begin to count. Students misstep at predictable or consistent numbers. (decades 2930; century marks 399400; counting by 			
tens 100, 110, 20) • Students can count higher than they can record,			

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	especially if they are counting by ones.	
•	Students may not record the way they counted. (For	
	example, they counted by tens, but recorded ones)	

Lesson Planner	Lesson Notes
Mathematical Goal	
Social Goal	
Launch (5min.)	
When you first begin counting collections you may want to model:	
How to work with a partner	
Ways to keep track of your countWays you might record	
In later lessons share student strategies (counting, grouping,	
or recording) from the last count.	
As students count	
 Try not to provide teacher directions about how to count. Let students develop their own strategies that make sense to them. 	
Be open to the various ways that students group objects	
Ask students to show you how they counted.	
• Name a child's counting strategy and encourage other students to give various strategies a try. ("I see you put 5 beads in a cup and then counted up by 5s")	
• If students finish early, they can get another bag to count or to try to count their objects a different way.	
As you walk around	
Take notes using the anecdotal record sheet	
• Are students able to keep track of what is being counted? How are students keeping track?	
"How do you know which ones you've counted and which ones you haven't counted?"	
Are students working together?	
"It looks like the two of you are using different strategies.	

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