

PictureSTEM: Designing a Toy Box Organizer – Materials List

Materials (for 30 students, groups of 2):

Item	Quantity Needed
NON- CONSUMABLES	
Snapware containers http://www.ioann.com/snapware-blue-handle-lid-smart-store-12-x-3-tote/zprd_01145846a/	15
Physical Properties Bags: for sorting (color, size, shape, texture, weight, flexibility, strength)	
Feather (red or blue)	15 (1/group)
Colored gems/stones (red or blue)	15 (1/group)
Foam sheet (red or blue, 2" x 2" piece)	15 (1/group)
Construction paper (red or blue, 2" x 2" piece)	15 (1/group)
Felt (red or blue)	15 (1/group)
Paper clip (red or blue, assorted sizes?)	15 (1/group)
Notecard/cardstock	15 (1/group)
Sandpaper (2" x 2" piece)	15 (1/group)
Bead (red or blue)	15 (1/group)
Yarn (red or blue, approx. 4-6" piece)	15 (1/group)
Large Ziploc bag (to store items)	15 (1/group)
Craft sticks	15 (1/group)
"Toys" to sort (and organize in toy box)	
Legos (approx. 250 pieces bucket)	Assorted pieces/group
Toy cars	15 (1/group)
Crayons	15 (1 small box/group)
Colored Pencils	15 (1 box/group)
Mini Pad of paper/ Post it notes	15 (1 /group)
Beads	1 bag (small pile/group)
Playdough	15 (1 /group)
Small Ball	15 (1 /group)
Stickers	15 (1 sheet/group)
Erasers	15 (1 /group)
Bouncy Balls	15 (1 /group)
Paper Lunch bags (used for mystery bags)	15 (1 /group)
Assorted Materials for Measuring Toy Box	
Ziploc bag – sandwich size (to store items)	15 (1/group)
Jumbo Paper Clips	Approx. 20
Standard paper clips	Approx. 20
1 in. square/cubes	Approx 15

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Pennies	
Craft sticks	
Erasers	
Crayons	
CONSUMABLES	
Building Materials	
Masking tape	5 rolls
Aluminum Foil	1 roll
Tissue Paper	1 pack (20 assorted)
Construction Paper/Cardstock	1 pack
Pipe Cleaners	30
String/yarn	1 roll
Jumbo Craft Sticks	1 pack (100)
Foam sheets	

Books:

Lesson 1: Myller, Rolf. (1991). *How Big is a Foot?* New York, NY: Yearling

Lesson 2: Leedy, Loreen. (1997). *Measuring Penny*. New York, NY: Henry Holt

Lesson 3: Jenkins, Steve (2007). *Living Color*. Boston, MA: Houghton Mifflin

Lesson 4: O'Malley, Kevin. (1999). *Leo Cockroach...Toy Tester*. New York: Walker & Co.

Lesson 5: Shannon, David. (2008). *Too Many Toys*. New York: Scholastic

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Materials – (Divided by Day):

Day 1 – Non-Standard Units

- **Lesson 1L** (Literacy) – Book: *How Big is a Foot?*
 - sheet
- **Lesson 1S** (STEM) – Treasure Hunt MEA
 - Treasure Hunt Story sheet & character cards, MEA student packet, optional: Susie’s treasure map

Day 2 – Standard vs. Non-Standard

- **Lesson 2S** (STEM) – Design your own tool
 - Assorted measuring materials
- **Lesson 2L** (Literacy) – Book: *Measuring Penny*
 - Making Connections sheet

Day 3 – Physical Properties

- **Lesson 3L** (Literacy) – Book: *Living Color*,
 - sheet
- **Lesson 3S** (STEM) – Physical Properties
 - Physical Properties Bags, sorting mat, Mystery bags

Day 4 – Testing Materials

- **Lesson 4L** (Literacy) – Book: *Leo Cockroach... Toy Tester*,
 - Sequencing sheet
- **Lesson 4S** (STEM) – Testing and Planning
 - 1/group: toy box, set of toys, sample materials bags, masking tape
 - EDP planning sheet (1/student)

Day 5 – Designing a Toy Box

- **Lesson 9** (Literacy) – Book: *Too Many Toys*,
 - Summarizing sheet
- **Lesson 10** (STEM) – Building and Testing your Design
 - 1/group: toy box, set of toys, building materials, masking tape
 - EDP planning sheet (1/student)