

Action Based Learning

STEM Activities





Shape Toss

Materials

- Masking Tape
- 5–10 Bean bags—*Bean bags can be created using zip lock bags filled with rice and duct tape the opening.*

Set Up

- Tape 3–4 different shapes on the floor in a row, or draw different shapes on pieces of paper and tape the paper to the floor.
- Instruct student to toss bean bags onto specific shapes.
- Once you have tossed all the bean bags, have the student collect the bean bags and count how many were in each shape.
- Practice subtraction by saying “3 take away 1 equals 2” while picking up the bean bags.
- **Add-On:** Write spelling, sight or vocab words in shapes. When a bean bag lands on a shape, spell, say or define the word.



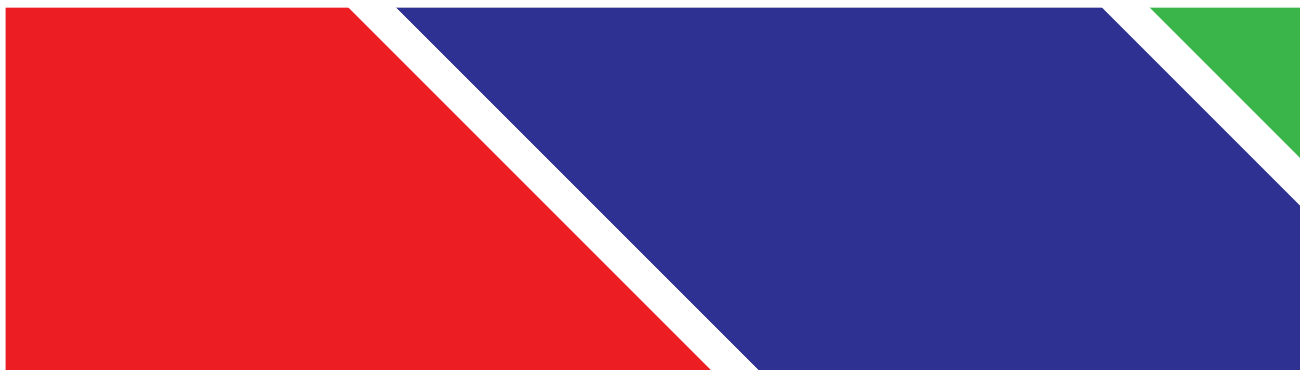
Beach Ball Catch

Materials

- Beach Ball
- Permanent Marker

Set Up

- Write numbers 0–10 on the beach ball in different areas.
- Have the student throw the ball in the air and catch it.
- Have the student add (beginner) or multiply (advanced) whatever two numbers their hands land on.





Bean Bag Distance

Materials

- Measuring Tape
- 1–2 Bean Bags/Rice bags
- Masking Tape

Set Up

- Tape 5–6 X's on the floor in different locations.
- Have the student stand in one spot and try to toss their bean bag to chosen X.
- Then have the student take the tape measure and measure the distance their bean bag landed from whatever X they were aiming for.
- Repeat until student has attempted to hit every X.
- The student can also create a map of their X's and add up the total distance to get from the start (where they throw the first bean bag) to the end (where they throw the second bean bag).



Color Jump

Materials

- Red, Orange, Yellow, Green, Blue, Indigo and Violet felt pieces (for carpet) or construction paper
- Index cards with pictures of different colored items. Ex: Red apple, Yellow Banana, Blue Bird etc.

Set Up

- Lay felt pieces or construction paper around the floor a couple inches apart within jumping distance.
- Hold different cards in the air and have the student identify what color the item on the card is and jump to a felt piece (if on carpet) or construction paper that matches that color.
- **Advanced:** Have the student jump the colors backwards or bottom to top. Assign a number to each color. Hold up math flash cards and have student jump to the answer.





Paper Airplane Distance

Materials

- Printer Paper
- Tape Measure

Set Up

- Have student fold paper into a paper airplane.
 1. Fold paper in half vertically.
 2. Unfold the paper and fold each of the top corners into the center line.
 3. Fold the top edges into the center line.
 4. Fold the plane in half toward you.
 5. Fold the wings down, matching the top edges up with the bottom edge of the body.
- Have the student stand in one spot (mark their spot with a piece of tape) and throw their airplane.
- The student will measure the distance from the spot in which they were originally standing to the spot their airplane landed.
- **Advanced:** Have them mix it up and measure the distance in yards, feet, inches and centimeters.



Bean Bag Knock Down

Materials

- 8–10 plastic cups
- Marker
- Bean Bag, Small Ball or Rice Bag

Set Up

- Write one number 1–8 or 1–10 on each one of the plastic cups.
 - Have the student stack the cups into a pyramid.
 - Have the student stand back from the cups and aim to knock down the pyramid.
 - Then the student will collect the cups that were knocked down and add, subtract or multiply the numbers on the cups with the numbers on the other cups knocked down.
 - **Add on:** You can also have the student add, subtract or multiply the numbers of the cups still standing as well.
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