

WORKSHOP EXTENSION ACTIVITY

Built by The Home Depot Kids Workshop



VALENTINE BEAN BAG TOSS

Ages 5-8 and 9-12

MAKE. CREATE. EXPLORE.

#KidsWorkshopExplore





What are the physics behind your bean bag toss?

What other objects might be easier to throw than **bean bags**?



At first glance, a bean bag toss may seem like a piece of cake... but a lot depends on just how far away you choose to stand! Test your skills to see how far away you can stand and still toss the beanbag into the hole.

For your first toss, use a ruler to measure a starting point that is two feet away from the bean bag toss. Use masking tape to mark the spot, and then try to throw the bean bag into the hole five times from that distance. Use the chart below to keep track of how many times you were successful. Once you've thrown five times, move back one foot, mark where to stand again, and start over!

Test Your Skills

You'll need...

- Masking tape
- Ruler

How do you get your most successful tosses?



Share your discovery! Use **#KidsWorkshopExplore** to post pictures showing which object was tossed the most successfully!

Bean Bag Toss

Distance Away	Throw #1 Success? (Yes or No)	Throw #2 Success? (Yes or No)	Throw #3 Success? (Yes or No)	Throw #4 Success? (Yes or No)	Throw #5 Success? (Yes or No)	Total Successes
2 feet						
3 feet						
4 feet						
5 feet						
6 feet						
7 feet						
Challenge: ____ feet						
Total Number of Successful Throws:						

Reflect!

1. Why were certain distances more successful than others?

2. What features of the bean bag made it easy to throw? What features made it more difficult? Think about its size, weight, shape, etc.

3. What may be easier to throw than these bean bags? Why?



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Mix it up

Now experiment to see if tossing different types of objects changes how many times you make a successful toss.

You'll need at least two different kinds of balls or throwable objects. A few suggestions include:

- Walker balls
- Table tennis balls
- Larger or smaller bean bags

Once you've selected what you are going to throw, make a quick hypothesis about the outcome. Then start your trials and record your results!

Trial 1: What will you toss? _____

Hypothesis: I think I will be more or less successful throwing this than the first set of bean bags because

Distance Away	Throw #1 Success? (Yes or No)	Throw #2 Success? (Yes or No)	Throw #3 Success? (Yes or No)	Throw #4 Success? (Yes or No)	Throw #5 Success? (Yes or No)	Total Successes
2 feet						
3 feet						
4 feet						
5 feet						
6 feet						
7 feet						
Challenge: ____ feet						
Total Number of Successful Throws:						



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Trial 2: What will you toss? _____

Hypothesis: I think I will be more or less successful throwing this than the first set of bean bags because

Distance Away	Throw #1 Success? (Yes or No)	Throw #2 Success? (Yes or No)	Throw #3 Success? (Yes or No)	Throw #4 Success? (Yes or No)	Throw #5 Success? (Yes or No)	Total Successes
2 feet						
3 feet						
4 feet						
5 feet						
6 feet						
7 feet						
Challenge: _____ feet						
Total Number of Successful Throws:						

Analyze Your Results

Review the data you collected. Then think about:

1. Were your hypotheses correct? Why or why not?

2. Which item had the highest number of successful throws? Why do you think this is the case?

3. Was one object tossed more successfully from shorter distances?



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4. Was one object tossed more successfully from longer distances?

5. If you were to recommend only one object to use with this Valentine Bean Bag toss, which would it be and why?



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