Experiment Activity2*: Goal to teach various concepts of animal management challenges such as introducing new feed, water, time management and animal observation.*

Situation*: You are raising an animal for your livestock project. You need to have an average daily gain of 6 beans to make market weight of 4 oz in 30 days. Your 4-H leader teaches you the average for the species is 6 beans per day, but some people have gotten gains as high as 8 beans. Feed conversion is 1 bean of feed = 1 bean of gain.*

Hypothesis*: If I feed my animal _____ times a day with _____ beans of feed, my ADG will be _____ beans per day. My animal will make minimum market weight of 4 oz by using the above feeding method.*

Methods*:*
- *Create your animal that must be able to hold feed.*
- *Decide how many times a day to feed your animal and how much at each feeding.*
- *Weigh-in your animal.*
- *Take turns and play the game of "roll the dice". By rolling dice, you will determine the management situation your animal received due to various conditions that affect his eating habits.*

If you roll:
1. *Follow feeding plan exactly.*
2. *Water trough is empty -only eats ½ of ration*
3. *Follow feeding plan exactly*
4. *In a hurry going to the movies, you don't clean out the feed pan & your animal has pooped in it. You just throw the feed on top. Your animal only eats ½ of his feed.*
5. *Follow feed plan exactly.*
6. *You increased animals feed by 1, but he doesn't eat all of it. You just put the next feeding on top of the feed left, staying with the increased amount. You do this for 3 days. Remove ½ of animals grain for the last 3 days as he hasn't been eating everything.*

- *Final Weigh-in of your animal and determine ADG.*

Need*: Beans or other type of feed (beans work well because they come in different sizes.) Milk cartoon type animal, scales. Paper or calendar to track how much you feed each day, dice.*
Experiment*: Create your animal and play the game of roll the dice*
Results*: Record what you did and what your animal weighs*
Conclusion*: Was your hypothesis true or false? What happens if your animal does not have the ADG you predicted?*

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