## The Endangered Food Chain

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	Mamor		
	Name:	 	
Dart 1: The Herbivores			

- 1. What happened to the corn?
  - a. Predict: What does this will mean to the farmer?
  - 2. Provide an example of who else depends on the corn crop.
    - a. Describe how/why they depend on it.
  - 3. **Predict** the economic impact of grasshoppers ruining a crop?
    - a. **Explain** how that makes sense.
- 4. **Describe** a method that could be used to prevent grasshopper damage. (What is the *most economical way, most effective way, most environmentally sound way?)*

## Part 2:The Infected Food Chain

Individual Data:

	Elbow Pasta	Spiral Pasta	Grasshoppers	Lizards
Number Consumed:			,	

- 1. Predict what the two types of pasta could represent.
  - a. Explain your reasoning.
- Predict what would happen to the grasshoppers that ate the affected corn?
  - a. Why?
- 3. Predict what would happen to the lizards that ate the infected grasshoppers?
  - a. Why?

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4.	Predict what would happen to the hawks that ate the infected lizards.	
	a. Why?	
5.	Explain how the farmer's "solution" affected the food chain.	
	a. Would this be true every time?	
6.	What happens as the affected corn traveled through the food chain?	
	a. Describe how this makes sense.	

7. Draw a picture to represent your understanding of what "biological accumulation" is.

8. **Hypothesize** about what would happen to the hawk population over time.

## **Part 3: Food Chain Connections**

- 1. Write a QUALITY conclusion paragraph describing the connections you can make between the "Catch Me If You Can" food chain activity and today's food chain activity? Include:
  - a. What role does the number of organisms play in the activity (why more grasshoppers than lizards and more lizards than hawks, etc.)?
  - b. What happens to energy through the food chain? Provide an example.
  - c. What happens to biological accumulation through the food chain? Justify your response!