

 **Project 5.4.1 Hunger Pains****Purpose**

You have been feeding your pet guinea pig nothing but grass clippings. He loves them and is overjoyed every time you deposit a handful in his cage. He gobbles the clippings up more quickly than the expensive pellets you had been feeding him and you are saving some money. However, in the past week you have noticed that he is losing weight and his coat has lost its shine. You wonder what might be wrong. After a quick search online, you discover he may not be getting all the nutrients he needs.

In previous lessons, you have discovered the need for nourishment and the essential nutrients all animals require. You know about feedstuffs and that not all nutrients may be present in one feed. What happens when the nutritional needs of an animal are not met?

Materials**Per team of three students:**

- Computer with Internet access and Microsoft PowerPoint®
- *Project 5.4.1 PowerPoint® Template*

Per student:

- Pencil
- *Agriscience Notebook*

Procedure

For this project, you will work in a team of three and research common nutritional disorders of an animal. You and your team will be assigned a species of animal from the list below to investigate.

Beef Cattle	Dogs	Rabbits
Chickens	Goats	Sheep
Dairy Cattle	Horses	Swine

Part One – Research

You and your team will research the nutrient requirements, common feeds, and common disorders for your animal. You will have two days to compile your research and develop a presentation using the *Project 5.4.1 PowerPoint® Template*.

In your presentation, your team should include the following:

- Nutritional requirements for maintenance of a mature animal
 - Energy
 - Protein
 - Vitamins
 - Minerals
- Feeds commonly fed to your animal
 - Include pictures of the feedstuffs
- Three common nutritional disorders.
 - Include pictures of animals with the disorder

