

Name _____

Horse Nutrition

Use your hand out and to answer the questions.

1. What are nutrients?

A substance that provides nourishment essential for growth and the maintenance of life. For horses, nutrients include carbohydrates, fats, protein, vitamins, minerals and water.

2. Of the 4 Basic Types of food, which require you to feed Hay also?

Textured Sweet, Pelleted grain mix, supplements

Majesty's Treats:

Ingredients:

2 tablespoons margarine
20 marshmallows
2 cups sweet feed
1 cup cracked corn
1/d cup mellowcreme treats
(candy corn, pumpkins, santas, etc)
1/2 cup bran

Slightly grease with margarine an 8x8 cake pan and dust with bran. Set aside.

Melt margarine in a 4-quart saucepan over medium heat. Add marshmallows gradually, stirring constantly until melted. Remove from heat and add sweet feed, cracked corn and candy (candy corn etc). Stir well until coated. Transfer into the cake pan, dust the top with bran and press down. Cool and cut into squares. Dust with more bran.

Use the handout and the recipe to answer the questions.

3. Majesty's Treats require 6 ingredients. Are any of these providing vitamins or minerals?

YES

4. What ingredients will supply the horse with large amounts of sugar?

Marshmallows, mellowcreme treats

5. Of the nutrient food groups, which are obviously included in the recipe in large amounts?

Carbohydrates, Fats, Proteins,

6. Do you suspect that the horse will be able to live entirely on this treat?

NO

If no, what else will you need to feed?

Grass/hay, water

Bucket Lickin' Bran Mash:

Ingredients:

8 cups bran
1 cup rolled oats
1/4 cup vegetable oil
1/4 cup molasses
1 1/2 cups hot water
1 carrot, sliced
1 apple, sliced

Mix bran and oats with hot water, then add oil and molasses. This is a drier mash, so add more water if you like it soupier. Cover and let steep until cool enough to eat.

Additional additives:

Salt– 2 tablespoons to 1/8 cup.
Electrolytes
Soy Bean Meal– 1 cup for weight gain
Corn oil– 1/3 cup for coat and shine
Ground Sage– 2 tablespoons
Bee Pollen– adds natural vitamins and minerals
Crushed Garlic– 1 or 2 cloves

Use the handout and the recipe to answer the questions.

7. What food groups do you recognize in the Bran Mash recipe?

Carbohydrates, fats, proteins, vitamins, minerals

8. Given what you learned from the handout-Should the Bran Mash give the horse energy?

YES

9. What ingredients would obviously provide the largest amount of vitamins?

Carrots

Why are vitamins important?

They help the horse to utilize nutrients for growth, maintenance, reproduction and performance

10. Vegetable oil is considered a fat. What will this ingredient do for the horse?

Provide stamina

11. What will adding garlic help?

Combat parasites; worms

Stuffed Molasses Apples:

Ingredients:

2 apples
1 cup bran
1 carrot, shredded
3/4 cup molasses
1/2 cup brown sugar
1/2 cup sweet feed
Confectionery sugar

Core two apples and dig out as much of the center as you can, as you would a pumpkin at Halloween. Set this aside.
Mix shredded carrot with bran, molasses, brown sugar and sweet feed in a large bowl. Add more molasses or bran to give mixture a stiff consistency. Scoop mixture out of the bowl and press into apples. Press fairly tightly
To Garnish: Drip a small amount of molasses over the top so it runs down sides of the apple and sprinkle with confectionary sugar. Serve immediately

Use the handout and the recipe to answer the questions.

12. The protein from the sweet feed will be used by the horse to:

Replenish body tissues after exercise

13. This recipe is high in which nutrient food group?

Fats

14. Which of the 3 recipes would be the healthiest choice for you and your horse?

The Bucket Lickin' Bran Mash

15. What are the 3 sources of energy?

Carbohydrates, Fats, Proteins

16. What are 2 things which could be used to give your horse a shiny coat?

Eggs, Corn Oil

17. A 1,000 pound horse doing heavy work would probably need how many calories a day?

36,000 calories