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## Unit 3 Study Guide

1. How many calories are in every gram of carbohydrate? $\qquad$
2. What types of food sources do we get most of our carbohydrates from, (plant or animal)? $\qquad$
3. What FOOD GROUP do we get most of our carbohydrates from? $\qquad$
4. What is the main function of carbohydrates? $\qquad$
5. If you eat more carbohydrates than your body needs for energy, how will your body store them?
6. What are the three types of carbohydrates?
a.
b. $\qquad$
c.
7. Which is a better energy source over a prolonged period of time, (complex starches or simple sugars)?
8. Will complex starches eventually break down into simple sugars? $\qquad$
9. How many grams of fiber should the average American consume each day?
10. Fiber can only come from what kind of food source, (plant or animal)? $\qquad$
11. What are the other two names for fiber? $\qquad$
12. What substance must fiber have in order to "do its job" effectively?
13. List two negative health consequences of not getting enough fiber:
a.
b.
b.
14. What part of fruits/vegetables have the most fiber? $\qquad$
15. What types of leavening agents do QUICK BREADS use? $\qquad$
16. What type of leavening agent does YEAST BREAD use? $\qquad$
17. What gas is produced when leavening agents react to raise quick or yeast breads? $\qquad$
18. What ingredient does yeast feed on? $\qquad$
19. What ingredient controls the growth of yeast? $\qquad$
20. What is the best way to develop gluten in YEAST breads? $\qquad$
21. What is the best way to develop gluten in QUICK breads? $\qquad$
22. Describe two characteristics of an under-mixed muffin:
a.
b. $\qquad$
23. Describe two characteristics of a perfectly mixed muffin:
a.
b. $\qquad$
24. Describe two characteristics of an over-mixed muffin:
a.
b. $\qquad$
25. Describe two characteristics of a perfect biscuit:
a. $\qquad$
b. $\qquad$
26. What are the two most important steps in biscuit making?
a.
b. $\qquad$
27. Which type of rice has the most fiber and is the "whole grain" form of rice? $\qquad$
28. Which type of rice is pre-cooked and then dehydrated? $\qquad$
29. When cooking rice, the lid should be $\qquad$ .
30. When cooking pasta, the lid should be $\qquad$ -
31. What is the RICE YIELD ratio (Dry:Cooked)? $\qquad$
32. What is the PASTA YIELD ratio (Dry:Cooked)? $\qquad$
33. If a product claims that it is "Whole Wheat", what parts of the wheat kernel must it use?

Match the part of the wheat kernel with the nutrients it provides:

## Nutrients:

34. $\qquad$ Fiber, Vitamins, Minerals
35. $\qquad$ Starch, Protein
36. $\qquad$ Unsaturated Fatty Acids, "B" Vitamins, Iron, Zinc

## Parts:

A: Endosperm
B: Germ
C: Bran


Match the basic ingredients to the purpose in a quick bread.

## Purpose:

37. $\qquad$ Body/Structure
38. $\qquad$ Produces CO2 to make light, airy and porous

Ingredients:
A: Salt
B: Flour
C: Fat
39. $\qquad$ Flavor
40. $\qquad$ Tenderness, some flavor and richness

D: Leavening Agent
41. $\qquad$ To dissolve leavening agent and provide moisture
42. $\qquad$ Flavor and Browning

E: Sugar
F: Eggs
43. $\qquad$ Color, texture and nutrients (especially protein)

G: Liquid

## Match the type of sugar with its other common name.

44. 

Sucrose
A. "Fruit Sugar"
45.
Fructose
B. "Malt Sugar"
46.
Maltose
C. "Blood Sugar"
47. Lactose
D. "Table Sugar"
48.
Glucose
E. "Milk Sugar"

