8th Grade Assignment Sheet ----- POD B

Date 5-7-12

Science: **Shari Hudgeons** **Book:** **Yes** (**No**)

Calorimeter Lab

see teacher for makeup

Math: **Katie Johnson** **Book:** (**Yes**) **No**

Mult. Polynomials

pp. 392, 16-30 (evens) & 36-41 (all)

Communications: **Sandi Armbruster** **Book:** **Yes** **No**

Apostrophe lesson
Paragraph
Quilt block
Final letter

> See me

Social Studies: **Larry Criddle** **Book:** **Yes** **No**

See attached

May 9, 2012

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REFORM T-Shirts DUE
Grade Review Question Chapter 8
Video Yearbook

May 9, 2012

8

Read Chapter 13
Write an essay (detailed at least one page)

Where the Red Fern Grows.webs

Where the Red Fern Grows Cha

Where the Red Fern Grows12-1

CHAPTER 15 (T)
Questions 12-15

VIDEO YEARBOOK

Where the Red Fern Grows

Comprehension for Chapters 12 - 15

1. Papa wanted Billy to _____.

a) gather fire wood

b) take the corn to be milled

c) clean the barn

d) help Grandpa in his store

2. What bet does Grandpa and Billy make with Rubin and Rainie?

a) Billy could not catch three coons in one night.

b) Billy's coonhounds could catch the ghost coon.

c) Billy couldn't chop down the big sycamore.

d) That Billy could not stay up all night long and hunt without falling asleep.

3. Why was the raccoon called the ghost coon?

a) The coon made a howling sound like a ghost.

b) The coon was white, the color of a ghost.

c) The coon seemed to disappear when he reached the huge oak tree.

d) The coon could run so fast, it seemed like he was floating.

4. How was the ghost coon able to hide from the hunters?

a) He dropped down into a hollow fence post.

b) He climbed from the oak tree to the maple then down to the ground.

c) He could swim the river

d) He went through and underground tunnel.

5. Old Dan gets into a fight with _____.

a) Old Blue

b) the ghost coon

c) a skunk

d) a porcupine

6. What happened to Rubin?

a) He fell on the ax.

b) He fell in the river.

c) He fell over the cliff.

d) He was bitten by a mountain lion.

7. What did Billy do to pay his respects?

a) went to the funeral

b) wrote a letter to the Pritchards

c) took a pie to the Pritchard's home

d) put flowers on Rubin's grave

8. Why did Grandpa feel the accident was his fault?

a) He gave Billy the ax.

b) He called the bet and gave Billy the $2.

c) He wished something bad would happen to the Pritchards.

9. Billy, Grandpa, and Papa were going _____.

a) to buy Mama a house in town

b) to town to sell furs

c) to the Smoky Mountains of Tennessee

d) to the Championship Coon Hunt

10. Grandpa, Papa, and Billy traveled to the contest by _____.

a) train

b) buggy

c) mule

d) walking

11. What happened that caused Billy to think he would have bad luck?

a) He heard two owls.

b) A black cat crossed his path.

c) He broke a mirror.

d) He walked under a ladder.

12. Why did Billy win a small silver cup?

a) Dan was the best looking hound.

b) Ann and Dan were the smallest coonhounds.

c) Ann won a beauty contest.

d) Dan was the fastest runner.

13. Which statement from the story is an opinion?

a) Old Dan's face was a scarred, caused from the many fights with coons and bobcats.

b) Ann's short red hair glistened and every one was in perfect place.

c) Little Ann and a big walker hound owned by a Mr. Kyle were the only ones left.

d) During the commotion I felt hands slapping me on the back, and heard the word "congratulations" time after time.

14. Which sentence from the story supports the conclusion that Grandpa felt Billy was growing up?

a) Grandpa was getting excited. Off came his glasses and out came the old red handkerchief. He blew his breath on the lens and polished them.

b) After I had had my say, Grandpa stood looking down at the ground. There was a deep frown on his face, and a hurt in his eyes.

c) Grandpa poured the coffee. Instead of the two cups I expected to see, he set out three and filled them to the brim with the strong black liquid. "I'm not only big enough to help Papa with the farm. Now I'm big enough to drink coffee."

d) Grandpa almost jumped as he answered, "No, sir, not just any hound can be entered. They have to be the best, and they have to be registered, too."

15. Which statement is true about the theme of Where the Red Fern Grows?

a) Dogs are man's best friend.

b) Slow and steady wins the race.

c) Do unto others as you would have them do unto you.

d) Don't count your chickens before they hatch.

16. In this book the author probably chose to use first person point of view because _____.

a) he wanted to move from one character's to another character's perspectives of the situation

b) he wanted to be able to pull away from a close character relationship so the reader could see the story from a "distance"

c) he wanted the reader to better relate the close friendship between Billy and his dogs

Calorimeter Lab: Energy Content of Foods

Introduction:

Energy content is an important property of food. The energy your body needs for running, talking, and thinking comes from the food you eat. Energy content is the amount of heat produced by the burning of 1 gram of a substance, and is measured in joules per gram (J/g).

You can determine energy content by burning a portion of food and capturing the heat released to a known mass of water in a calorimeter. If you measure the initial and final temperatures, the energy released can be calculated using the equation

$H = \Delta t \cdot m \cdot Cp$

H = heat energy absorbed (in J)

Δt = change in temperature (in °C)

m = mass (in g)

C_p = specific heat capacity (4.18 J/g°C for water)

Dividing the resulting energy value by grams of food burned gives the energy content (in J/g).

Predict: Which food item do you think has the greatest amount of stored energy? _____

Materials

pop can matches graduated cylinder coat hanger paper clip triple-beam balance water thermometer aluminum foil peanut marshmallow

Procedure

1. Set up the calorimeters by bending the coat hangers that will stand on their own with the hook of the hanger bent over the opening created by bending the hanger (see figure 3).
2. Completely cover the outside of the calorimeter (hanger) with aluminum foil to focus all the heat forward

Adapted from: http://www.biologyjunction.com/energy_in_food.htm
www.pleasanton.k12.ca.us/avhsweb/mistry/.../**calorimeter%20lab**.doc and Hands on Physical Science

toward the hanger hook.

3. Bend the tab of the aluminum can up (the can will hang by this), and fill the can with 10 mL of water. Hang the can on the hook of the coat hanger. Take the Initial Temperature reading and record in data table.
4. Bend a small paper clip so that the food can be attached to one end and the other end will sit flat.
5. Place it on the piece of foil under the can. There should be enough clearance that when the food is attached it does not touch the can.
6. Find the mass of the marshmallow and record in the data table.
7. Place the marshmallow on the paper clip and then carefully light it on fire. MUST WEAR GOGGLES AND TIE LONG HAIR BACK!
8. When it has completely burned out record the final temperature in the data table.
9. Find the mass of the burned item and then place it on the paper towel to be disposed of later.
10. Repeat steps 3-9 with the peanut.

DATA

	Marshmallow	Peanut
Mass of food (initial)	_____ g	_____ g
Mass of food (after burning)	_____ g	_____ g
Mass of water (1 ml = 1g)	_____ g	_____ g
Initial water temperature	_____ °C	_____ °C
Final water temperature	_____ °C	_____ °C
Observations		

PROCESSING THE DATA

1. Calculate change in water temperature, Δt, for each sample, by subtracting the initial temperature from the final temperature ($\Delta t = t_{final} - t_{initial}$).

Adapted from: http://www.biologyjunction.com/energy_in_food.htm
www.pleasanton.k12.ca.us/avhsweb/mistry/.../calorimeter%20lab.doc and Hands on Physical Science

2. What is the mass of the water?
3. Use the results of Steps 1 and 2 to determine the heat energy gained by the water (in J). Use the equation

$$H = \Delta t \cdot m \cdot C_p$$

where H = heat absorbed (in J), Δt = change in temperature (in °C), m = mass of the water heated (in g), and C_p = specific heat capacity (4.18 J/g°C for water).

4. Calculate the mass (in g) of each food sample burned. Subtract the final mass from the initial mass.

5. Was your prediction correct?

6. Were you surprised by the results?

Adapted from: http://www.biologyjunction.com/energy_in_food.htm
www.pleasanton.k12.ca.us/avhsweb/mistry/.../calorimeter%20lab.doc and Hands on Physical Science