



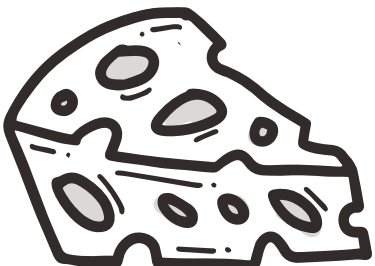
DAIRY CONNECTION

9th-12th Grade WORKSHEET

MOO-LTI-STEP EQUATIONS: Where are butter and cheese products made?

Solve the following multi-step equations and use the correct answer to solve the riddle. Show your work in the space below.

E. $3(x+2) + x = -14$	R. $6 + 3x = -3x + 12$
A. $9x - 6 = 5x + 18$	Y. $8x + 2 = -9 + 7x$
M. $3x + 9 = 2x - 5$	C. $2(x+3) - 4 = 10$
E. $3x + 2 = 29$	R. $4(x-2) + 2x = 40$



In a _____.

4 7 8 6 -14 1 -5 -7

SCAVENGER HUNT:

1. What helps convert food into energy?
2. What dairy product can improve tenderness?
3. Where is milk tested for antibiotics?
4. List the four stomach compartments in order:
5. What makes milk curdle?
6. What is pasteurization?
7. Which cattle breed produces best for cheese production?



DIGESTIVE DOODLE:

Draw and label a diagram that shows the digestion of a ruminant. Explain the process.

A large, empty rounded rectangular box with a thick black border, intended for drawing and labeling a diagram of ruminant digestion. The box is currently blank.

CODE MOO:

Use the key below to decode the dairy facts.



1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
14	15	16	17	18	19	20	21	22	23	24	25	26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

How many breeds of dairy cattle are there in the United States?

19	5	22	5	14

Instead of sweating, how do cows regulate heat?

2	18	5	1	20	8

The average cow _____ about 50 times a minute.

3	8	5	23	19

_____ is National Dairy Month.

10	21	14	5

_____ is the most popular cheese in the U.S.

3	8	5	4	4	1	18

How many minutes does a cow spend drinking per day?

20	8	9	18	20	25

What is America's favorite ice cream flavor?

22	1	14	9	12	12	1

How many months are cows pregnant?

14	9	14	5

TEKS:

- English
- English I: 2.A.3, 4.E, 4.F, 4.H
 - English II: 2.A.3, 4.E, 4.F, 4.H
 - English III: 2.A.3, 4.E, 4.F, 4.H
 - English IV: 2.A.3, 4.E, 4.F, 4.H

- Math
- Algebra I: 1.A, 1.B, 1.C, 5.A, 5.B
 - Algebra II: 1.A, 1.B, 1.C, 7.B

- Science
- Biology: 4.C, 5.A, 12.A

- Agriculture, Food, & Natural Resource
- Principles of Agriculture, Food, and Natural Resources: 4.A, 5.A, 12.A, 12.B, 12.D, 13.A, 13.C
 - Livestock and Poultry Production: 4.C, 6.A
 - Advanced Animal Science: 8.C, 11.A, 17.A