



MORE THAN MEAT

Grade Level

2-5

Length of Lesson

30 minutes

Objective

Students will be able to identify products that can be made from different parts of cattle.

Materials Needed

- Picture or poster of a beef cow
- Printed out labels
- Pictures or real examples of:
 - Baseball glove
 - Paintbrush
 - Crayons
 - Shampoo
 - Tennis racket
 - Fertilizer/manure
 - Gummy bears
 - Piano keys
- Tape or another way to attach labels

Standards

Common Core

CCSS.ELA-

Literacy.SL.3-5.1;

SL.3-5.2; SL.3-5.6

NGSS

3-5-ETS1-1;

3-5-ETS1-2;

5-PS1-3

Lesson Summary

In this lesson, students will explore how cattle by-products can be transformed into everyday products. Students will investigate where these products come from and learn how using by-products can help make the most of a natural resource.

Suggested Sequence of Events:

1. Set Up: Print out the label cards (lamine for extended use), have large photo pulled up on board or poster ready to tape to.
2. Read through the IAITC Beef Ag Mag/Reader series Interactive versions can be found at agintheclassroom.org.
3. Complete the activity following the procedures:
 - Begin holding up photos or objects and asking what they think goes into making each product.
 - Baseball glove, paintbrush, crayons, shampoo, tennis racket, fertilizer, gummy bears, piano keys
 - Now ask students where they get steak and hamburgers.
 - Explain that all of the previously mentioned products AS WELL as the steak and hamburgers come from beef cattle.
 - In groups or as a whole class have students use the labels and object titles to figure out where each product comes from on a cow.
 - Come back together as a group (if you weren't already) and discuss the answers.
 - Once completed, have a conversation about sustainability in using animal products:
 - "Sustainability is about making responsible choices with resources. Farmers have found useful purposes for cattle byproducts. This is one example of how a resource can be used in more than one way."
4. See "Teacher Resources" for more fun ways to keep the learning going!

TEACHER RESOURCES

Extension Ideas

- Cattle Byproduct Scavenger Hunt
 - Have students search the classroom, school, or their home for products that may contain or be made from animal byproducts. Students record the product, what it is made from, and what property makes the material useful.
- Design a New Product
 - Give each student a cattle byproduct and challenge them to invent a new product made from it. Students draw their invention and explain how it would be useful.
- “What If We Didn’t Use It?” Discussion
 - Have students consider what might happen if useful cattle byproducts were not used. Discuss waste, resource use, and why finding additional uses for materials can contribute to sustainability.
- Beef Byproduct Research Project
 - Assign each student or group one cattle byproduct. They research where it comes from, how it is processed, what products it can become, and why it is useful. Students present their findings.
- Cattle Byproduct Career Connections
 - Introduce careers connected to cattle byproducts, such as leather workers, meat processors, food scientists, agricultural engineers, veterinarians, manufacturers, and environmental scientists.
- Check out our Reading Guide for [“The Beef Princess of Practical County.”](#)
- Check out the Cattlemen's Beef Board and National Cattlemen's Beef Association’s suite of classroom materials: <https://www.beefitswhatsfordinner.com/raising-beef/sustainability-for-kids>
- “Stump Your Parents” Beef and the Earth facts! Use it as a Jeopardy/Kahoot style quiz and then send it home with your students.
<https://www.montanabeefcouncil.org/Media/MTBeef/Docs/earthday-2022-stumpyourparents-arms040122-11.pdf>
- Go to agintheclassroom.org to contact your County Literacy Coordinator for free classroom sets of our Ag Mags!

INSIDE





BASEBALL GLOVE

HIDE



PAINT BRUSH

HAIR



CRAYONS

FAT



SHAMPOO

HOOVES



TENNIS RACKET STRINGS

**INTERNAL
ORGANS**



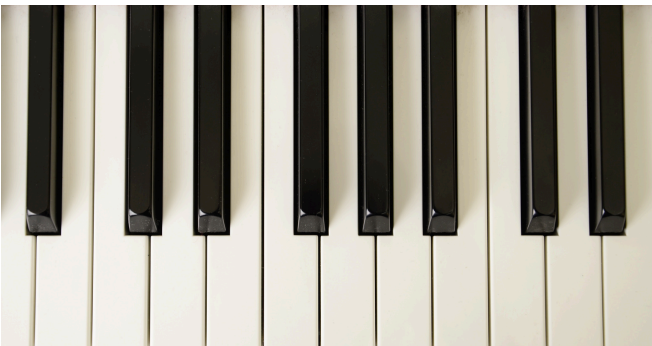
FERTILIZER

MANURE



GUMMY BEARS

**CONNECTIVE
TISSUE**



PIANO KEYS

BONES

BONES



PIANO KEYS



GUMMY BEARS

**CONNECTIVE
TISSUE**

**INTERNAL
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TENNIS RACKET STRINGS

INSIDE

HIDE



BASEBALL GLOVE



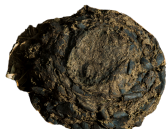
CRAYONS

FAT

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FERTILIZER

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SHAMPOO

HOOVES