

Name:	
Period:	

UNIT: FIRST AID

WHAT'S IT MADE OF? – SYNTHETIC VS. NATURAL

Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.

INVESTIGATION GOAL:

Learn to identify whether materials are natural or synthetic, and explore why synthetic materials are useful in medical care.

BACKGROUND INFO:

- Natural materials come directly from nature (plants, animals, minerals).
- Synthetic materials are man-made from natural resources using chemical processes (like plastic
 or petroleum jelly).
- Many first aid materials are chosen based on their strength, flexibility, absorbency, or ability to protect wounds.

MATERIALS:

- ✓ Cotton bandage
- ✓ Adhesive bandage (Band-Aid)
- ✓ Gauze pad
- ✓ Petroleum jelly or antibiotic ointment
- ✓ Magnifying glass
- ✓ Optional: "What's It Made From?" info sheet or product label

STUDENT DIRECTIONS:

- 1. **Use the magnifying glass** to look closely at each material.
 - o What's its texture like?
 - Is it stretchy? Soft? Sticky?
 - o Does it remind you of something natural or plastic-like?



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- 2. Use your sense of touch and observation to make an educated guess:
 - o Was this material made directly from plants or animals (natural)?
 - o Or was it made in a factory from processed chemicals (synthetic)?
- 3. Look at product labels or the info sheet (if provided) to check your guess. If no label is available, write your best guess based on texture, look, and feel.
- 4. **Complete the table below** with your group.

Record Your Observations:

Item	Natural or Synthetic?	What's it made from (or your best guess)?
Cotton Bandage	☐ Natural ☐ Synthetic	
Adhesive Bandage	☐ Natural ☐ Synthetic	
Gauze Pad	☐ Natural ☐ Synthetic	
Ointment	☐ Natural ☐ Synthetic	
1. Why do we use	synthetic materials in first ald	d instead of only natural ones?
2. Which material	surprised you the most? Why	·?
		atural material you could use to replace something
synthetic? Wou	ld it work just as well?	

STANDARDS ALIGNMENT

NGSS: MS-PS1-3 STEL: STEL 1F, STEL 2E, STEL 3F, STEL 4E, STEL 7E, STEL 11F CCSS: CCSS.MATH.CONTENT.6.SP.B.5, CCSS.MATH.PRACTICE.MP2, CCSS.MATH.PRACTICE.MP5, CCSS.MATH.PRACTICE.MP6