

Name:	
Period:	

# UNIT: FIRST AID

# **COOL IT DOWN!**

#### GOAL:

Test different types of bandages to see which one works best when applied to a moist or sweaty wound. You'll test how well they stick, how strong they are, and how easy (or hard) they are to remove.

#### MATERIALS:

- √ Fabric bandage (like cloth adhesive)
- ✓ Plastic bandage (like standard Band-Aid)
- √ Gauze + tape
- ✓ Paper towel + tape (DIY bandage)
- ✓ Spray bottle with water (to simulate sweat or moisture)
- ✓ Paper "skin" or a damp sponge
- ✓ Timer (or stopwatch)
- ✓ Pencil for recording results

#### STUDENT DIRECTIONS:

# Step 1: Prep your "skin":

• Lay your paper "skin" flat on the table (or use a moist sponge if instructed).

#### **Step 2: Stick on your bandages:**

Apply each type of bandage to a separate spot on the "skin" or sponge. Make sure each one is
pressed down firmly so it starts out sticking well.

# Step 3: Spray the bandages:

• Use the spray bottle to lightly mist the bandages 3–4 times. This simulates moisture from sweat, rain, or a humid day.

#### **Step 4: Start your timer:**

- Wait 1 minute without touching the bandages. Observe:
  - o Did any start to peel off?
  - o Which one stayed on best?



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# **Step 5: Do the strength test:**

- After 1 minute, gently tug each bandage. Try pulling from the corner.
  - o Which one came off easily?
  - o Which one held strong?

**Step 6: Record your results** in the table below. Discuss with your group what each material was good or not so good at.

#### Record It:

Bandage Type	Stayed on when wet?	Easy to remove?	Strong hold?
Fabric Bandage	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Plastic Bandage	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Gauze + Tape	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Paper Towel + Tape	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

# Think & Reflect:

1.	Which bandage worked the best overall (held tight, stayed dry, felt comfortable)? Why?
2.	If you had a real cut or scrape, which bandage would you choose and why?
3.	What properties make a bandage useful in real life? (Think: water resistance, flexibility, comfort)

### STANDARDS ALIGNMENT

NGSS: 2-PS1-4 STEL: STEL 1A, STEL 4A, STEL 8A, STEL 11A CCSS: CCSS.MATH.CONTENT.2.MD.A.1, CCSS.MATH.CONTENT.2.MD.D.10, CCSS.MATH.PRACTICE.MP2, CCSS.MATH.PRACTICE.MP4, CCSS.MATH.PRACTICE.MP6