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:
  + Did any start to peel off?
  + Which one stayed on best?

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

* After 1 minute, gently tug each bandage. Try pulling from the corner.
  + Which one came off easily?
  + 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?  
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2. If you had a real cut or scrape, which bandage would you choose and why?

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1. What properties make a bandage useful in real life? (Think: water resistance, flexibility, comfort...)

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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