UNIT: FIRST AID

Best Bandage Challenge!

GOAL:

Test and compare how different bandage materials perform when wet to determine which one stays on the best, sticks the strongest, and is most comfortable to remove—just like a real bandage used for healing skin.

Materials:

* Different types of bandages (fabric, plastic, gauze, paper towel with tape)
* Spray bottle with water
* Paper "skin" or sponge
* Timer

STUDENT DIRECTIONS:

**STEP 1: Prepare the Surface:**

* Lay out your paper “skin” or sponge flat on your desk. This will be the pretend “arm.”

**STEP 2: Apply Bandages:**

* Carefully stick each bandage type onto a section of the “skin.” Press firmly like you're treating a real cut!

**STEP 3: Simulate Sweat:**

* Lightly spray all bandages with the water bottle. This simulates sweating or rain. Start your **timer for 1 minute**.

**STEP 4: Observe:**

* After one minute, check:
  + Which bandages are still sticking?
  + Did any fall off or peel?

**STEP 5: Test Strength:**

* One by one, gently pull each bandage off.
  + Which one was easiest to remove?
  + Which one stuck the strongest?

### **Record Your Results:**

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

**Wrap-Up Reflection:**

* Which bandage would you choose for a real cut? Why?  
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* What kind of material works best in wet or sweaty conditions?

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Standards Alignment

NGSS: 2-PS1-2 STEL: STEL 1A, STEL 4A, STEL 7A, STEL 8A CCSS: CCSS.MATH.PRACTICE.MP2, CCSS.MATH.PRACTICE.MP4, CCSS.MATH.PRACTICE.MP5, CCSS.MATH.PRACTICE.MP6