

**WEEK I: SHURI'S LAB**



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I AM STEM

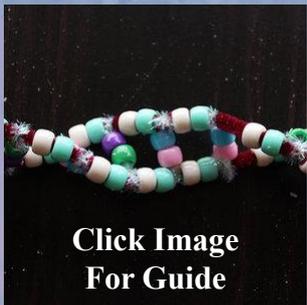
presents...



# WAKANDA FOREVER: BETTER TOGETHER

Tuesday, June 20, 2023

## DNA Beaded Bracelet



### Materials:

- Beads
- Pipe cleaners
- Scissors

### Instructions:

- Sort 16 beads of the same color into the deoxyribose group and 16 beads of another color into the phosphate group. Thread 2 pipe cleaner equally with a phosphate bead then a deoxyribose bead. The pattern of the beads on the pipe cleaner should be identical.
- Organize 5 beads of the same color into the Adenine, Thymine, Guanine, and Cytosine bead group
- Following the sequence you have been given use another pipe cleaner to thread 2 bead between the deoxyribose beads. Twist the pipe cleaner to secure the base pairs and cut the excess.
- Once the sequence is finish the beads will resemble a ladder. Twist the structure forming a helix along with the open ends.

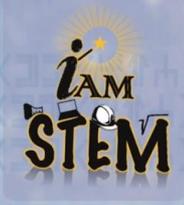
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# WAKANDA FOREVER: BETTER TOGETHER

Wednesday, June 21, 2023

## Vibranium Slime

### Materials:

- Water
- Glue
- Baking soda
- Glitter
- Contact lens solution (with boric acid and sodium borate)



### Instructions:

1. Mix  $\frac{1}{2}$  cup of water with  $\frac{1}{2}$  cup of glue until they are combined.
2. Stir in glitter and  $\frac{1}{2}$  tsp of baking soda.
3. Slowly add 2 tbsp of contact lens solution to the mixture.
4. Stir until the mixture becomes thick and slimy.



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# WAKANDA FOREVER: BETTER TOGETHER

Thursday, June 22, 2023

## Cabbage Juice pH Indicator

### Materials:

- Red cabbage juice
- Water
- Ice
- Sprite
- Lemon juice
- Sugar
- Vinegar
- Hydrogen peroxide
- Baking soda
- 8 cups

### Instructions:

1. Label 8 cups A-H. Record with substance will be pour in each cup.
2. Stir a little water into the ice, baking soda, and sugar cups.
3. Record your prediction of what will happen once the cabbage juice is poured into each cup.
4. Pour a bit of cabbage juice into each cup.
5. Use pH paper to test your prediction.
6. Put the cups in order from most acidic to most basic.





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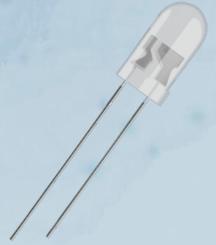
# WAKANDA FOREVER: BETTER TOGETHER

Friday, June 23, 2023

## Heart-Shaped Herb

### Materials:

- Purple felt
- Green felt
- Scissors
- Glue gun & glue sticks
- Pen or pencil
- Battery pack
- 2 AA batteries
- LED light
- Electrical tape



### Instructions:

1. Watch [this tiktok!](#)
2. Cut one purple and one green large leaf shapes and one green long rectangle.
3. Place batteries in your battery pack and attach each leg of the LED bulb to a wire, secure with electrical tape.
4. Glue the LED bulb to a purple leaf.
5. Glue the battery pack to the back of the purple leaf and cover by gluing on to the green leaf.
6. Wrap the bottom with your rectangle-shaped piece of felt and glue.

