**Name: Date:**

**Tie Dye Project Research**

1. Where did the first dyes come from and who were the first to use them?
2. What fabrics are the best for tie dye? What makes these fabrics so suitable for dying?
3. Research the following terms and explain how they relate to our Tie Dying Project…

* Absorption-
* Covalent Bonding –
* Dyes-
* Chromophores-
* Hydrophobic-
* Hydrophilic-

1. **Before a fabric can be dyed the atoms on the surface of the molecules of the fabric need to be prepared for bonding. What are two ways of preparing the atoms (fabric) for dying?**
2. **After soaking you garment in sodium carbonate what is the approximate pH value achieved?**

1. **How does this help with the dying process?**
2. **Why do you wait 24 hours before you rise of the garment?**
3. **You did not tie your garment well. How does this affect your final product?**
4. **Your final product and it is too white, what might have happened?**
5. **How might you create a spiral of color?**
6. **How might you create polka dots?**