**Molecules lab**

**White marshmallows = electrons**

**Green marshmallows = Hydrogen nuclei**

**Yellow marshmallows = Carbon nuclei**

**Pink marshmallows = Oxygen nuclei**

**Peach marshmallows = Nitrogen nuclei**

**Caution: Do not attempt to eat the marshmallows!!!!**

**Procedure**

1. **You must work in pairs or independently.**
2. **Determine the valence electrons for each element and draw their Lewis dot structures.**
3. **Build the “Lewis model” of atoms by assembling the nuclei (colored marshmallows) and valence electrons (white marshmallows) using skewers to keep them in place**
4. **Now bring 2 or more atoms together by sharing 1 or more pairs of electrons (Follow the octet rule)**
5. **Cross-check your molecule to make sure each atom (except for H) has 8Ve-**
6. **You have now created a molecule (Show it to your teacher!)**
7. **Draw the structure of the molecule (must be turned in at the end of the class)**

**Cleaning after the lab**

**1. All the used marshmallows and skewers must go in trash.**

**2. Unused marshmallows and skewers must be returned to designated container. Trays must be returned to the front table.**

**3. Clean up the area.**

**4. Failing to clean up completely will result in “zero” participation points for today!**