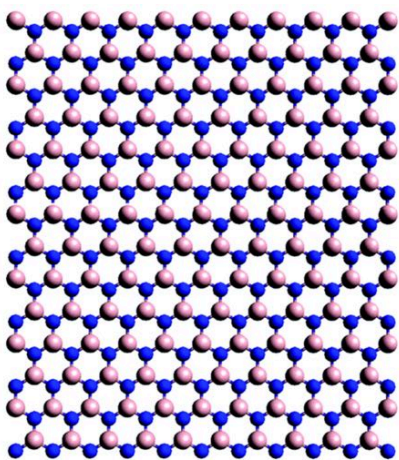




Boron Nitride



Boron nitride (BN) has the same structure as graphene, but every other atom is either a boron or nitrogen atom. The properties of BN are very different from graphene though! It does not conduct electrical current very well.

1. You will need toothpicks, and equal numbers of two different colors of marshmallow. One color will represent B atoms, while the other will represent N atoms.
2. Take 6 toothpicks and arrange them into a hexagon.
3. Connect them together with a marshmallow at each corner, but alternating the colors so that you have B-N-B-N-B-N around the hexagon.
4. Take 5 toothpicks and arrange them into a hexagon next to the first hexagon, and connect the corners with marshmallows, being careful again to alternate the marshmallow colors. Make sure you don't have B-B or N-N bonds.
5. Repeat this until you form a larger sheet. You've just made a model of BN!