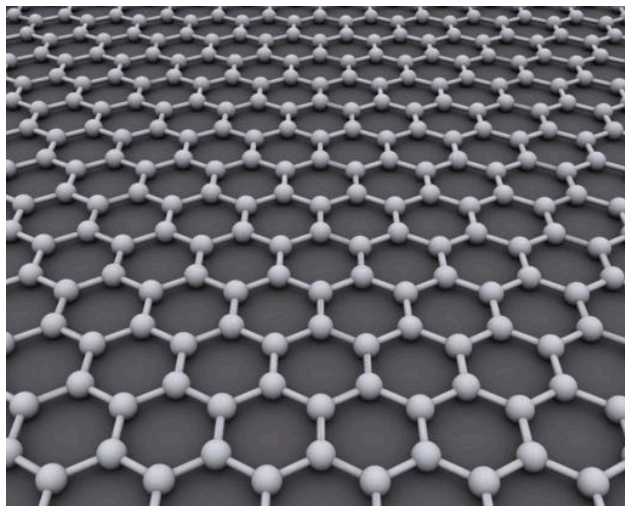




Instructions for 2D Material Structures

Graphene



Graphene is a single sheet of carbon atoms in a honeycomb structure. Some of its properties include the ability to allow electrons to flow through it very quickly. Here is how to make its structure:

1. You will need toothpicks, and marshmallows all of the same color. The more toothpicks and marshmallows you use, the bigger your graphene sheet will be.
2. Take 6 toothpicks and arrange them into a hexagon.
3. Connect them together with a marshmallow at each corner.
4. Take 5 toothpicks and arrange them into a hexagon next to the first hexagon, and connect the corners with marshmallows.
5. Repeat this until you form a larger sheet. You've just made a model of graphene! Each marshmallow represents a carbon atom, and each toothpick represents a carbon-carbon double bond.