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# Synthetic Materials Activity for Kids

## Fake Worms DIY

 Duration: **20 min**

 Difficulty: **Easy**

 Cost: **\$0 to \$10**

Use calcium chloride and sodium alginate to make fake worms!

### Material List

- 2** Tablespoons calcium chloride
- 05** Teaspoons of sodium alginate
- 1** Bowl with 1 cup of water
- 1** Plastic bottle with 1 cup of water
- 1** Food coloring
- 1** Stirring utensil
- 1** Pair of safety glasses
- 1** Pair of gloves

### Instructions

- 1** Add 2 tablespoons of calcium chloride to the bowl of water and mix it.
- 2** Into the bottle, add a few drops of food coloring and a half teaspoon of sodium alginate.
- 3** Cap the bottle immediately and shake it for 30 seconds. It can take some time to dissolve.
- 4** Pour the liquid in the bottle, into the bowl (try to make one continuous stream of liquid).
- 5** Wait 10 seconds and pull out the new substance.

### How It Works

The chemical reaction between two natural resources (calcium chloride and sodium alginate) forms a synthetic material. Sodium alginate comes from algae and calcium chloride comes from rocks. The gel-like substance is formed because the sodium alginate reacts with the calcium chloride, to form calcium alginate. Fun fact: this synthetic material is used by doctors to help wounds heal faster.