

# Chemical Reactions Shopping List

## eCamp Chemistry Lab

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**\*\*CAUTION: Do not randomly mix chemicals together, as it can produce lethal gases!\*\***

- [Activated charcoal](#) (from [Water Purification Experiment](#))
- 1 quart whole milk (do not substitute, unless your child has a milk allergy, use soy or almond milk)
- 1 pint heavy cream (do not substitute, unless your child has a milk allergy, then skip)
- 1 cup sugar (or other sweetener)
- 1 tsp vanilla (use non-alcohol kind)
- Rock salt (use table salt if you can't find it)
- Lots of ice
- Freezer-grade zipper-style bags (you'll need quart and gallon sizes)
- Cardboard box (ours is 10" x 5" x 5", but anything close to this will work fine)
- Diffraction grating (you can [order a sheet here](#))
- 2 [razor blades](#) (with adult help)
- Masking tape
- Ruler
- Photocopy of a cm ruler (or sketch a line with 1 through 10 cm markings on it, about 4cm wide)
- Shallow baking dish
- Tongs
- Rubbing Isopropyl Alcohol (50-91%)
- Dollar bill
- Fire extinguisher with adult help
- Empty water bottle
- Balloon
- [Litmus paper](#) or [pH paper](#) (you can cut into strips)
- [Sodium Silicate](#) (from Unit 3)
- [Ethyl Alcohol](#) (check your pharmacy)
- Iodine (clear, non-ammonia from the pharmacy)
- Hydrogen peroxide (3% solution)
- Vinegar (distilled white is best)
- Cornstarch (tiny pinch) or one starch packing peanut
- Water (distilled)
- [Sodium Thiosulfate](#)
- [Sodium Carbonate](#) (AKA: "washing soda")
- [Phenolphthalein](#) (keep this out of reach of kids) – this is optional
- [Calcium chloride](#) (AKA: "ice melt" or "Dri-EZ")
- [Sodium carbonate](#) (AKA: "washing soda")
- Sodium tetraborate (AKA: "[Borax](#)")
- Sodium bicarbonate (AKA: "baking soda")
- [Potassium iodide](#)
- [Disposable droppers](#) (10)
- [Citric acid](#) (spice section, used for preserving and pickling, also in pharmacy)
- Ammonium nitrate (found inside a single-use disposable cold pack: *not* the gel kind)
- Liquid dish soap
- 20 disposable cups (don't use your kitchen glassware, as you'll never get it clean again)
- 20 Popsicle sticks (again, use something disposable to stir with)
- Gloves for your hands
- Goggles for your face
- Tablecloths (one for the table, another for the floor)
- Head of red cabbage (indicator)

**Note: if you purchased the chemistry set in Unit 8 and the chemicals from Unit 3, you have most of what you need already.**