

THE MYSTERY OF MATTER

HANDS-ON CHEMISTRY ACTIVITIES

Below are links to 22 fun, hands-on chemistry activities that were developed by the St. Louis Science Center and the nine other science centers that took part in the NSF-sponsored outreach plan for the *Mystery of Matter* project. Each link will take you to a pdf description of the activity, including a list of the materials that are needed (and their costs) and a field-tested procedure for performing the activity. Five of the pdfs also have links to demonstration videos on YouTube. Although the activities were designed to be used in science museums, you may also find some of them suitable for use in the classroom.

[Baggie Ice Cream \\$35](#)

[Biodiesel \\$50](#)

[Cake Chemistry \\$40](#)

[Chemistry Showcase Activities \\$100 \(video\)](#)

[Chromatography \\$25](#)

[Coke and Mentos \\$20](#)

[Density Column \\$55 \(video\)](#)

[Earth Day Activities \\$70](#)

[Five Forming Crystals Activities \\$75](#)

[Four Bubble Activities \\$75](#)

[Iodine Investigations \\$20 \(video\)](#)

[Lava Lamp-Elephant Toothpaste \\$60 \(video\)](#)

[Lesson Plan- Making a Smoke Bomb \\$50](#)

[Making a Solar Powered Motor \\$50](#)

[Making an Electromagnet \\$30](#)

[Plastic Milk \\$30](#)

[Recycling \\$30 \(video\)](#)

[Seven Dry Ice Experiments \\$70](#)

[Tea Candle Chemistry \\$25](#)

Thermal Energy \$30

Three Air Pressure Experiments \$45

Two Activity Extensions