

OUR MISSION

INL's K-12 STEM Program works to inspire Idaho's future STEM workforce, impact students, teachers and families by integrating best practices in STEM education, and empower employees to become STEM mentors to transform K-12 STEM into a driver for innovation.

STEM IN ACTION



CO₂ TO THE RESCUE

Reactions occur when two or more molecules interact and the molecules change. Bonds between atoms are broken and created to form new molecules. In this activity, a reaction will be created to create enough gas to float an object.

TRY THIS AT HOME

- *Look at videos of an actual flotation device and discuss and draw how some features from this product might be incorporated into a cell phone flotation device.*
- *Add more to the design of the cell phone rescue device. Draw the device and include captions to describe the special features of their device*
- *Discuss with other groups, draw, and explain how the flotation device might be activated when it hits the water.*
- *Test smaller amounts of ingredients to see if they will still make the cellphone float.*

CAREERS IN STEM

BUILDING STEM SKILLS

Chemists study chemical substances and how they interact with each other. Chemists at the INL work to research innovative, clean energy solutions. One of the projects they are working on involves using Supercritical Carbon Dioxide as an environmental friendly solvent in extraction processes. This is important because it minimizes waste production, is inexpensive, and very effective in recovering metals from liquid or porous solids. INL chemists in supercritical fluid extraction are helping to develop groundbreaking technologies to recover critical elements that are used in numerous clean energy technologies (including nuclear fuel).

STUDENTS + PARENTS + EDUCATORS

For information on grants, training and student opportunities; curriculum ideas and resources, please visit us at: stem.inl.gov.

