MEL VR Science Simulations Lesson List

Chemistry

Atoms Periodic Molecules Isomerism **Substances** Table Atoms in solids Periodic table Molecules Structural isomerism Dive into substances Periodic table box Molecular Cis-trans isomerism Dive into soda Atoms in gases Atomic mass representation Dive into aspirin Atom structure Optical isomerism Electron orbitals Atom size trends Molecular formula Isomers or not (lab) Dive into aluminum Periodic Table (lab) Optical isomerism Dive into ascorbic Isotopes (lab) Make methane Orbital names (lab) acid molecule (lab) Build isomers (lab) Electron Dive into soap Make carbonic acid configuration Dive into propane molecule (lab) Dive into nitrous Atom size Make dichloroethane lons oxide Oxygen atom (lab) molecule (lab) Dive into urotropine Make a molecule Carbon atom (lab) Dive into neon Carbon 14 isotope Dive into silver bromide Sodium atom (lab) Dive into citric acid Nitrogen atom (lab) Dive into corundum Neon atom (lab) Dive into menthol Make your atom (lab) Dive into vanillin Dive into caffeine Dive into tungsten carbide Dive into phenolphthalein Dive into calcite Dive into diamond Dive into graphite Dive into salt

Physics

Electrostatics

Electric charge Electric forces Electric field Dipoles Electric sandbox (lab)

Temperature

Heating of gas and solid Temperature and kinetic energy Thermal conductivity Speed distribution vs Temperature Speed distribution vs Molecular mass Thermal conductivity (lab)

Gas Laws

Avogadro's Principle Boyle's Law Charles's Law Dalton's Law Gay-Lussac's Law