Chemists must have a bachelor’s degree in chemistry or a related subject such as mathematics. Materials scientists need a college degree in materials science, chemistry, physics, or electrical engineering. However, chemists and materials scientists usually need a Ph.D. for research jobs.

WHEN MATH IS USED
Chemists use math for a variety of tasks. They balance the equations of chemical reactions, use mathematical calculations that are absolutely necessary to explore important concepts in chemistry, and utilize dimensional analyses to find a range of information from finding the mass of chemicals reacted to the concentration of a chemical in a solution. Math is also used to calculate energy in reactions, compression of gases, grams needed to add to a solution to reach desired concentration, and quantities of reactants needed to reach a desired product.

POTENTIAL EMPLOYERS
About four out of ten chemist jobs are in manufacturing firms. A lot of the firms are in the chemical manufacturing industry, which produces plastics and synthetic materials, drugs, soaps and cleaners, paints, industrial organic chemicals, and other chemical products. Others work for scientific research and development firms. In addition, thousands of chemists teach in high schools and colleges and universities.

FACTS
Chemists are “paid to be creative, careful, and productive. It’s a career for people who think about the future.”

CITATIONS
http://en.wikipedia.org/wiki/Chemist
http://www.chem.byu.edu/
http://answers.yahoo.com/question/index?qid=20081108091621AASNIHe
http://wiki.answers.com/Q/How_does_a_chemist_use_math
http://www.bls.gov/oes/current/oes192031.htm