



Where's the Gold?

Not only is gold beautiful, but it can also be super practical. It can be beaten into sheets 0.18 micrometers thick, drawn into wires 5 micrometers in diameter, and is inert to most acids and oxidants. Plus, it's a good conductor of heat and electricity, and forms stable, uniform nanoparticles.

Below are some of the uses of gold, but in order to read them, you have to decode the cipher. Each letter has been randomly substituted with another letter of the alphabet. The letter substitutions are the same for each word. Can you identify all the uses of gold?

(Starting hint: N stands for C, and R stands for L)

YHZHRAM _____

NEKUX _____

NDUNHA VAHDVPHUVX _____

PHBDRX _____

XPDAVLCEUH NKANFKVX _____

HRHNVAKNDR NEUVDNVX _____

DAVSKKNKDR RHQX _____

AHSRHNVKJH NEDVKUQ KU XLDNH CHRPHVX

** Answers are in the Teacher's Guide, available at www.acs.org/chemmmatters.org*