

Balanced Budget Chemistry

The more things ϕ change, the more they stay the same.

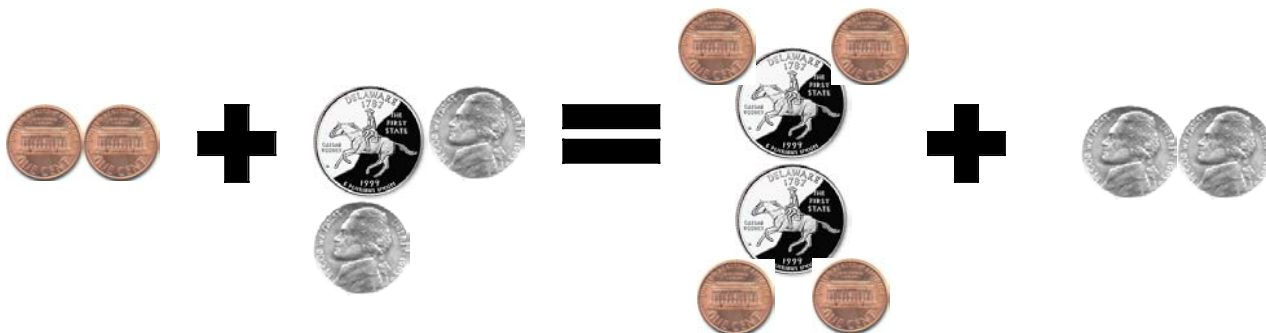
Mass is conserved in a chemical reaction, but often it is hard to measure all the products of a reaction. In this activity, coins are used to model molecules.

The atoms are Pennium symbol = Py, Nickelium symbol = Nk and Quarterium = Qu

These molecules

react to form

these molecules.



Write the symbols for these molecules

_____ + _____ = _____ + _____

Weigh each molecule

_____g _____g = _____g _____g

Balance the equation

_____ + _____ = _____ + _____

What is the mass of each balanced set of molecules

_____g _____g = _____g _____g

Total mass of left side = _____

Total mass of right side = _____

Option:

Instead of using grams or even mass, you can use the coin's value (i.e. A penny is 1 ϕ , nickel is 5 ϕ and a quarter is 25 ϕ) to balance this equation.