

# Particles 008 Conservation

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We have now got four properties that can be conserved in particle interactions. Here is a summary

## Charge

Always conserved. Easy

## Baryon Number

Always conserved. Easy too.

## Strangeness

Weak interactions are what cause quarks to change - nothing else, therefore in the weak interaction strangeness can be altered by -1, 0 or +1 - - - so in some cases of the weak interaction strangeness is preserved. Always Conserved in strong interactions. If you have a possible interaction, and it breaks these rules - it can't happen.

## Lepton Number

The different types of lepton number have to be preserved, and so we have to consider them separately.

