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changed into different ones with different properties as distinct from changing position or form phase chemical reactions involve the rupture or rearrangement of the bonds holding atoms together see bonding never atomic nuclei

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decomposition reaction is a reaction in which a compound breaks down into two or more simpler single replacement

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they are usually easy to reverse in a chemical reaction
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combination or synthesis reaction in a synthesis reaction two or more chemical species combine to form a more chemical decomposition or

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