- Provides more available reactants
- $CaCO_3(s) + 2 HCl(aq) = H_2O(l) + CO_2(g) + CaCl_2(aq)$
- Large surface area for medicine to allow them to be absorbed into bloodstream more quickly

5. Catalysts

- Chemicals that speed up reactions without using up themselves
- Reduce the amount of energy required to convert reactants to products (create new energy pathway to reduce activation energy)
- ii. Make it easier for reactant molecules to collide and reactant to form products (reactants attached to the surface of a catalyst lead to more collisions)

6. Enzymes

- Biological catalysts speeding up reactions inside or outside living cells
- Hold reactant molecules together until they rearrange
- Digestion uses amylase (in saliva) & others, to break down starches in complex carbohydrates

tesale.co.uk

Enzymes	Function – helps digest and utilise
Cellulase	Cellulose in fruits, vegetables, grains and seeds
Lipase	Fats
Lactase	Lactose (milk sugar)

Measuring Reaction Rates

- Change in volume
- Titration analysing concentration
- Mass of a substance
- Volume of a gas (with gas syringe)
- Time between start of reaction to the icin ation of a precipital Gas produced collected in a syringe and volume rete in hed on of a precipitate to an extent

Owen gas – placing a gowi despirit in oxygen test tube and it will reignite

General Information

Physical Change: