Methods of preservation and cooking

Methods of cooking:					
Dry Heat Methods of cooking	Examples	Advantages	Disadvantages		
Baking – food is cooked in the dry heat of the oven	CakesPastryBread	 Good colour Good texture Several items can be baked 	 Needs specific times and temperatures 		
Roasting – food is cooked using dry heat of the oven but basted with fat	 Meat Vegetabl es 	 Good flavour Crisp texture Items can be roasted together 	 Takes a long time to cook Additional fat content 		
Toasting – Dry heat is applied to food	BreadNutsSeeds	 Lowers the Glycaemic Index Adds Flavour 	 Food can burn quickly 		
Grilling – Dry heat is applied by a hot grill either above or below	SausageBacon	 Healthier as fat drains from meat Quick 	 Food can burn quickly 		
Dry Heat Methods of cooking	Examples	Advantages	Disadvantages		
Shallow Frying – small pieces of food are cooked in hot shallow oil	 Meat Vegetabl es 	Quick method of cooking	 Additional fat content Health and Safety issues 		
Deep Frying – Foods are submerged in hot fat / oi	ChipsChickenFish	 Quick Golden, crunchy texture 	 Additional fat content Health and Safety issues 		
Moist Heat Methods of cooking	Examples	Advantages	Disadvantages		
Boiling – starchy food is cooking in boiling water	PotatoesPastarice	 Quick No added fat Softens food	Water soluble vitamin loss		
Steaming – food is cooked in the steam of boiling water	 Fish Vegetabl es 	 Water soluble vitamins are not lost Healthier Food is easy to digest 	 Can take a long time Causes condensation 		
Poaching – Food is cooked in a small amount of simmering liquid	 Meat Fish Eggs 	HealthyQuick	 Loss of water soluble vitamins Food can break apart Bland taste 		
Stewing – Food is submerged in liquid and cooked slowly to develop flavours and tenderise meats	 Meat Fish Beans lentils 	 Meat is tenderised Good developed flavour Water soluble vitamins are absorbed into the sauce / gravy 	 Need to plan ahead as takes a long time (2-3 hours) 		

Methods of Preservation:

Methods of Preservation	Examples	Advantages	Disadvantages
Heat – Heat kills most micro- organisms and it stops any enzyme activity	 Pasteurisation of milk All cooked food Canned foods 	 Makes the food safe to eat Can speed up cooking time for the consumer 	 Doesn't kill heat resistant bacteria
Freezing – The microorganisms become inactive at very cold temperatures but will start reproducing during defrosting.	 Frozen meat / fish Readymade meals Desserts 	 Food can stay fresh when travelling over long distances Increased shelf life 	 More expensive due to transport and equipment to keep food frozen
Drying – Microorganisms need moisture to reproduce	 Pot noodles Coffee Milk Soups Gravy granules 	 Cheap to do Food takes up less space Increased shelf life 	 Can take away from flavour and texture of foods
Removing Air (Oxygen) – Most microorganisms need oxygen to reproduce. Food items are sealed in cans, jars, MAP, vacuum packaging	 Canned food Food in jars Meat and fish Sandwiches Crisps 	 Longer shelf life Preserves the taste and texture MAP (modified atmosphere packaging) is designed to let oxygen in and carbon dioxide out to maintain the environment 	 MAP – bad for the environment Jars and cans are heavy (increased transport cost)
Chemicals: salt, sugar, vinegar, smoke – The pH levels needed for bacterial growth and enzymic action are changed	 Salted meat and fish Pickles Chutneys Jams 	 Changes the flavour (e.g. pickled onions) Extended shelf life 	 If extra salt is added can be less healthy Takes a long time for the process
Irradiation – Food is exposed to low doses of radiation which kills all micro-organisms	 Herbs Spices Some vegetables and fruit 	 Delays food from ripening (allowing it to be sold for a longer period) Can help prevent vegetables from sprouting roots 	 Loss of nutrients Consumer concern, leading to avoidance