Personalised Revision Checklist for GCSE Food Preparation and Nutrition

Protein	I must know and understand		
	The functions		
	Main sources		
	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		

Fats	I must know and understand		
	The functions		
	Main sources		
	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		

	I must know and understand		
Carbohydrates	The functions		
	Main sources		
	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		

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Vitamins –	I must know and understand		
Water soluble	The functions		
• B	Main sources		
• C	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		
	How preparation and cooking affects		
	nutritional properties of food.		

Vitamins	I must know and understand		
-antioxidant	The functions		
functions			
• A			
• C			
• E			
	Main sources		
	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		
	How preparation and cooking affects nutritional properties of food.		

Minerals	I must know and understand		
	The functions		
	Main sources		
	Effects of deficiency (not enough)		
	Effects of excess (too much)		
	Related dietary reference values		

	I must know and understand		
	Function of water to eliminate waste		
	from body		
Water	Function of water to cool the body		
	Function of water to aid digestion		
	How water is lost from the body		
	Occasions when extra fluids are needed		

Making	I must know and understand		
informed	Guidelines for healthy eating – Eatwell		
informed	Guide		
choices for a	Nutritional needs at different life stages		
varied and	How to plan a balanced meal for specific		
healthy diet	dietary needs		

	I must know and understand		
	Factors which affect basal metabolic rate		
	The percentage of recommended energy		
Energy needs	sources		
	Protein 15%		
	Fat 35%		
	Carbohydrates 50%		

	I must know and understand		
How to carry out nutritional analysis	How to use current nutritional information and data to calculate energy and nutritional values		
	Food tables		
	Nutritional analysis software		

	I must know and understand		
	Obesity		
	Cardiovascular disease		
Diet, nutrition	High blood pressure		
and health	Bone health		
	Dental health		
	Iron deficiency anaemia		
	Type 2 diabetes		

	I must know and understand		
	Make food safe to eat		
Why is food	Develop flavours		
cooked and how heat is	Improve texture		
	Improve shelf life		
transferred	Give variety to diet		
	Improve colour, flavour, texture and smell		

Conduction		
Convection		
Radiation		

	I must know and understand		
Selecting	Select appropriate cooking & preparation methods		
appropriate	Can conserve or modify nutritive value		
cooking methods	Know how cooking and preparation affect appearance, colour, flavour, texture, smell and palatability		

Functio	n and chemical	I must know and understand		
proper	ties of Protein:	Scientific principles underlying		
• Prot	ein	these processes when preparing		
dena	aturation	and cooking food		
• Prot	ein coagulation	The working characteristics, functional and chemical		
• Glut	en formation	properties of proteins		
• Foar	n formation			

Fu	nction and chemical	I must know and understand		
	properties of	Scientific principles underlying		
	Carbohydrates:	these processes when preparing		
•	, Gelatinisation	and cooking food		
•	Dextrinisation	The working characteristics,		
•	Caramelisation	functional and chemical properties of proteins		

Fu	nction and chemical	I must know and understand		
pro	operties of Fats and	Scientific principles underlying		
Oil	s:	these processes when preparing		
•	Shortening	and cooking food		
•	Aeration	The working characteristics, functional and chemical		
٠	Plasticity	properties of proteins		
•	Emulsification			

Function and chemical	I must know and understand		
properties of fruit and	Scientific principles underlying		
vegetables:	these processes when preparing		
• Enzymic browning	and cooking food		
Oxidation			

Function and chemical	I must know and understand		
properties of raising	Scientific principles underlying		
agents:	these processes when preparing and cooking food		
Mechanical	The working characteristics, functional and chemical		
• Steam	properties of proteins		

	I must know and understand		
Microorganisms and enzymes	Growth conditions for microorganisms		
	Control of microorganisms growth		
	High risk foods		
	Control of enzymic action		

	I must know and understand		
Signs of food	Enzymic action		
spoilage	Mould growth		
	Yeast action on fruits		

	I must know and understand		
Microorganisms	Mould in the production of blue cheese		
in the production	Yeasts in bread		
of food	Bacteria in yoghurt and cheese		
	production		

	I must know and understand		
	From other contaminated foods		
	Work surfaces and equipment		
	The people cooking		
Bacterial	Pests		
contamination	Waste food and rubbish		
containination	Campylobacter		
	E-coli		
	Salmonella		
	Listeria		
	Staphylococcus aureus		

	I must know and understand		
Buying and	Temperature control		
	Ambient storage		
	Temperature danger zone		
storing food	Correct use of fridges and freezers		
	Date marks		
	"Best before" and "Use by" dates		
	Covering foods		

	I must know and understand		
	Personal hygiene		
Food safety in	Clean work surfaces		
preparing,	Separate raw and cooked foods		
cooking and	Correct cooking times		
serving food	Temperature control		
	Care with high risk foods		
	Use of food temperature probes		

	I must know and understand		
	Physical activity level		
	Celebration		
Factors which	Cost of food		
may influence	Preferences		
food choico	Enjoyment		
loou choice	Food availability		
	Healthy eating		
	Income		
	Lifestyle		

	Seasonality		
	Time of day		
	Time to prepare and cook		
	Be able to cost recipes and make		
	modifications		

How food	I must know and understand		
labelling and	Mandatory information included on		
	packaging		
marketing	Non mandatory information		
Influences food	How to interpret labelling		
cnoice.	How marketing can influence choice		

Food choices related	I must know and understand		
to religion, culture,	Food choice linked to religious teachings		
ethical and moral	Food choice linked to ethical and moral		
beliefs and medical	beliefs		
conditions	Food choice linked to food intolerances		

	I must know and understand		
	Distinctive features and characteristics		
Foods from	of cooking		
British tradition	Equipment and cooking methods used		
and 2 different	Eating patterns		
cuisines	Presentation styles		
	Traditional and modern variations of		
	recipes		

	I must know and understand		
	Preference tests: paired preference,		
	nedonic		
	Discrimination tests: triangle		
	Grading tests: ranking, rating and profiling		
Sensory	How to set up a taste panel		
evaluation	Controlled conditions for sensory testing		
	Evaluating how senses guide		
	Evaluating a wide range of ingredients and food from Britain and other countries		
	How to test sensory qualities of a wide range of foods		

	I must know and understand		
	Grown ingredients: fruit, vegetables,		
	cereals		
M/hove and how	Reared ingredients: meat and poultry		
where and now	Caught ingredients: fish		
ingredients are	Organic and conventional farming		
grown, reared	Free range production		
and caught	Intensive farming		
	Sustainable fishing		
	Local produced foods		
	Seasonal foods		

Environmental	I must know and understand		
issues associated	Seasonal foods		
with food	Sustainability eg fishing		

	Transportation		
	Organic foods		
	Reasons for buying food locally		
	Food waste in the		
	home/production/retailers		
	Environment issues relating to packaging		
	Carbon footprint		

	I must know and understand		
	Climate change		
	Global warming		
Impact of food on	Sustainability of food sources		
local and global	Insufficient land for growing food		
markets and	Availability of food		
communities	Fairtrade		
	Problems of drought and flooding		
	Genetically Modified foods		
	Food waste		

Food production:	I must know and understand		
Primary and	Primary processing related to the		
secondary stages	rearing, fishing, growing, harvesting		
of processing and	and cleaning of the raw food material		
production and	Secondary processing relating to how		
how processing	the raw primary ingredients are		
affects the sensory	processed to produce a food product		
and nutritional	Loss of vitamins through heating and		
	drying		
properties of	The effect of heating and drying on the		
ingredients	sensory characteristics of milk		

	I must know and understand		
Technological developments to support better health and food	Cholesterol lowering of spreads		
	Health benefits of fortification		
	Thiamine, niacin, calcium and iron		
	added to white bread		
	Folic acid and iron added to breakfast		
	cereals		
	Vitamins A and D added to fats and low		
	fat spreads		
	Positive and negative aspects of		
	additives		
	Positive and negative aspects of		
	Genetically Modified foods		

	I must know and understand		
	Consider lifestyle and choice when		
	planning meals		
	Consider nutritional needs when		
	planning meals		
Food preparation	Review and make improvements to		
and cooking	recipes		
techniques	Manage the time and cost of recipes		
-	Use testing and sensory evaluation to		
	improve the recipe during the		
	preparation and cooking process		
	Explain, justify and present ideas about		
	chosen cooking methods		

Make decisions about appropriate		
cooking, preparing and presenting		
techniques		