Subject: GCSE Foo	od Nutrition				
Year: 10			A		
Autumn HT 1:	Autumn HT 2	Spring HT 1	Spring HT 2	Summer HT 1	Summer HT 2
Topic 1: Food	Topic 2: The	Topic 3:	Topic 4: Diet and	Topic 5: Where	
commodities	science of food	Principles of	good health	food comes from	
		nutrition			
Commodities	The effects of	<b>Macronutrients</b>	Energy	Food	NEA 1 practice
<ul> <li>bread, cereals,</li> </ul>	<u>cooking on food</u>	and	requirements of	<u>Provenance</u>	<u>science</u>
flour, oats, rice,	<ul> <li>why food is</li> </ul>	micronutrients	<u>individuals</u>		investigation
potatoes, pasta	cooked, to include,	the definition of	<u>EARs</u>	<u>Multicultural</u>	
<ul> <li>fruit and</li> </ul>	digestion, taste,	macronutrients	• the	<u>foods</u>	Recap on science
vegetables (fresh,	texture,	and micronutrients	recommended		and effects on
frozen, dried,	appearance and to	in	daily intake	<ul> <li>food origins to</li> </ul>	cooking in food
canned and	avoid food	relation to human	(RDI) and the	include where	Mini Science
juiced)	contamination	nutrition	percentage	and how foods	project – students
<ul><li>milk, cheese and</li></ul>	•.how heat is	•the role of	energy values of	are grown,	will explore a
yoghurt	transferred to food	macronutrients	protein, fat and	reared, or caught	science practice
<ul><li>meat, fish,</li></ul>	through	and	carbohydrates:	<ul> <li>food miles,</li> </ul>	assessment, they
poultry, eggs	conduction,	micronutrients in	monosaccharide's	impact on the	will be given a
•soya, tofu, beans,	convection and	human	(sugars)	carbon	design brief and
nuts, seeds	radiation and how		polysaccharides	footprint,	investigate
<ul> <li>butter, oils,</li> </ul>	and why the	Nutrition vitamins	(starch) and	buying foods	working
margarine, sugar	production	and minerals	non-soluble	locally	characteristics of
and syrup	of some dishes		polysaccharides	<ul> <li>impact of</li> </ul>	ingredients
<ul> <li>the value of the</li> </ul>	rely on more than	<u>Macronutrients</u>	(dietary fibre)	packaging on	through testing to
commodity within	one method of	humans consume	vitamins and	the	produce an
in the diet,	heat T	in the largest	minerals, for:	environment	investigation task
nutrition	transference	quantities	IN IT AN	ATLS	

•features and	•. how selection of	(i) protein: to	(i) a range of life-	versus the	Research
characteristics of	appropriate	include essential	stages: toddlers,	value of	Plan of action
each commodity	cooking methods	amino-acids in	teenagers, early,	packaging	Hypothesis
with reference to	can:	relation	middle and late	<ul> <li>sustainability of</li> </ul>	Produce testing
their correct	(i) conserve or	to nutritional	adulthood	food: the	ideas and charts
storage to avoid	modify nutritive	requirements	(ii) individuals	impact of food	Practical testing
food	value, e.g.	(histidine,	with specific	waste on the	Investigate and
contamination	steaming of	isoleucine,	dietary needs or	environment,	record outcomes
•the working	green vegetables	lysine, leucine,	nutritional	local, global	Evaluate and
characteristics of	(ii) improve	methionine,	deficiencies to	markets and	conclude ideas
each commodity,	palatability e.g.	phenylalanine,	include coeliac	communities,	Revisit hypothesis
with reference to	physical	threonine,	disease; diabetes	effect of food	and predictions,
the skill – how to	denaturation of	tryptophan,	(type 2 diabetes	poverty	did they work
prepare cook	protein	valine) and non-	only to be	<ul> <li>food security:</li> </ul>	
them. when	<ul> <li>the positive use</li> </ul>	essential (alanine,	considered),	access to safe	
subjected to	of micro-	asparagine,	dental	sufficient food	
dry/moist	organisms such	aspartic acid	caries; iron	for all (World	
methods of	as bacteria in	glutamic acid)	deficiency	Health)	
cooking	dairy products:	(ii) fats, oils and	anaemia; obesity;		
<ul> <li>the origins of</li> </ul>	cheese, yoghurt;	lipids: saturated	cardiovascular	the distinctive	
each commodity	meat products:	fats,	disease (CVD);	features,	
	salami, chorizo	monounsaturated	calcium	characteristics and	
<ul> <li>experiment with</li> </ul>	and	fats,	deficiencies to	eating patterns of	
the commodity to	fermentation of	polyunsaturated	include bone	different cuisines.	
explore physical	sugar in drinks	fats and essential	health; nut or	Cuisine is defined	
and chemical	<ul> <li>the working</li> </ul>	fatty acids	lactose (dairy)	as a style	
changes that	characteristics,	(iii)	intolerances	characteristic	
occur as a result	functional and	carbohydrates:	(iii) individuals	of a particular	
of given actions-	chemical	monosaccharides,	with specific	country or region,	
practical lessons –	properties of	disaccharides	lifestyle needs to	where the cuisine	
dextrinization-	ingredients to	and	include	has	
caramelisation		polysaccharides	NYYLLY AYLG	IUS	

• consider	achieve a		vegetarians: lacto-	developed	
complementary	particular result:	Micronutrients are	ovo, lacto, vegan,	historically using	
actions of a	(i) carbohydrates	required by	and those with	distinctive	
commodity in a	- gelatinisation,	humans	religious beliefs	ingredients,	
recipe – nutrition	dextrinization	throughout life in	that affect choice	specific	
of commodities	(ii) fats/oils –	small quantities to	of diet, to include	preparation and	
<ul> <li>prepare and</li> </ul>	shortening,	facilitate a range	Hindu, Muslim,	cooking methods	
cook dishes using	aeration, plasticity	of physiological	Jewish	or equipment, and	
the commodities	and	functions	<ul> <li>how nutrients</li> </ul>	Presentation or	
	emulsification	(i) fat soluble	work together	serving	
	(iii) protein –	vitamins: vitamin	in the body,	techniques.	
	coagulation, foam	A, and vitamin D	e.g.	<ul> <li>traditional and</li> </ul>	
	formation, gluten	water soluble	complementary	modern	
	formation,	vitamins: B	actions	variations of	
	denaturation	vitamins: B1	basal metabolic	recipes to	
	(physical, heat	thiamin B2	rate (BMR) and	include	
	and acid)	riboflavin, B3	physical activity	variations of	
	(iv)	niacin, B12	level	recipes to include	
	fruit/vegetables -	cobalamin and B9	(PAL) and their	changing use of	
	enzymic browning,	folic	importance in	food	
	oxidisation	acid (folate) and	determining	commodities,	
	<ul> <li>reasons why</li> </ul>	vitamin C	energy	changes to	
	particular	(ii) minerals:	requirements	nutritional	
	results may not	calcium, iron,	Learners must	guidelines, and	
	always be	potassium and	have a sound	use of	
	achieved, e.g. a	magnesium	awareness of	modern cooking	
	sponge cake sinks,	(iii) trace	other common	methods and or	
	a sauce goes	elements, to	dietary issues	equipment	
	lumpy	include: iodine	including coronary	• meal	
	<ul> <li>how to remedy</li> </ul>	and fluoride	heart disease	structures:	
	situations when	I dava A	(CHD),	presentation	
	desired results	uus Al		of menus	

may not b	e	Learners must	cholesterol and	within	
achieved i		know and	liver disease	different	
first instar	nce	understand for		Cultures	
		each named	Plan balanced		
Food spoila	ge	macro	<u>diets</u>		
		nutrient and		<u>Food</u>	
how to store	foods	micronutrient:	recommend	<b>Manufacturing</b>	
correctly:			guidelines for a		
refrigeration/	′freezi	<ul> <li>the specific</li> </ul>	healthy diet	<ul> <li>primary stages</li> </ul>	
ng, dry/cold		function	<ul> <li>identify how</li> </ul>	of processing	
storage,		<ul> <li>the main</li> </ul>	nutritional	and production	
appropriate		sources	needs change	to include point	
packaging/co	verin	<ul> <li>dietary</li> </ul>	due to age, life	of origin, the	
g of foods		reference	style	transporting,	
<ul> <li>the importance</li> </ul>		values	choices and state cleaning and		
of date-marks,		• the	of health	sorting of the raw	
labelling of food		consequences	<ul> <li>plan a balanced</li> </ul>	food e.g. bags of	
products		of malnutrition	diet for:	fruit.	
to identify sto	orage	(over and	(i) a range of life-	<ul> <li>secondary</li> </ul>	
and preparat	ion	under)	stages: toddlers,	stages of	
• the growth	h	<ul> <li>complementary</li> </ul>	teenagers, early,	processing and	
conditions,		actions of the	middle and late	production to	
ways of		nutrients	adulthood	include	
preventior	n and		(ii) individuals	how primary	
control		Learners need to	with specific	products are	
methods for		know and	dietary needs or	changed into other	
enzyme action,		understand the	nutritional	types of	
mould growth and		dietary value of:	deficiencies to	products, e.g.	
yeast		(i) water	include coeliac	wheat to bread;	
production		(ii) dietary fibre	disease; diabetes	milk to cheese and	
• the signs of	of	(NSP)	(type 2 diabetes	yoghurt;	
food spoila	age,	uus Al	only to be	IUS	

including		considered),	fruit to jams,	
enzymic action,		dental	jellies and juices.	
mould growth,		caries; iron	<ul> <li>how processing</li> </ul>	
yeast		deficiency	affects the	
production and		anaemia; obesity;	sensory and	
bacteria	CAS	cardiovascular	nutritional	
• the role of	5 2	disease (CVD)	properties	
temperature,		calcium	of ingredients e.g.	
pH, moisture		deficiencies to	cured meat	
and time in the 🛛 🚄		include bone	products	
control of bacteria		health; nut or	<ul> <li>technological</li> </ul>	
<ul> <li>the types of</li> </ul>	L N	lactose (dairy)	developments	
bacterial cross-		intolerances	that claim to	
contamination	N.N.	(iii) individuals	support better	
and their		with specific	health and food	
prevention		lifestyle needs to	production	
4		include	including	
<ul> <li>preservation/ke</li> </ul>		vegetarians: lacto-	fortification and	
eping foods for		ovo, lacto, vegan,	modified foods	
longer, e.g.	VVUJH	and those with	<ul> <li>the positive</li> </ul>	
jam making,		religious beliefs	and negative	
pickling, freezing,		that affect choice	effects of food	
bottling, vacuum		of diet, to include	modification on	
packing		Hindu, Muslim,	health and food	
signs, symptoms		Jewish	production e.g.	
of food poisoning		(iv) individuals	flavour	
to include		requiring high	intensifiers,	
poisoning		energy needs as a	stabilisers,	
caused by		result of	preservatives,	
salmonella,	1	occupation or	colourings,	
campylobacter, e-	due Ar	activity	emulsifiers	
coli,	$nus \square u$	involvement	INS	

staphylococcus			the ability of
staphylococcus		Calculate energy	additives to
food wastage.		Calculate energy	
food wastage:		and nutritional	produce the
including the	•	values of	desired effect
effect on the		recipes,	
environment		meals and diets	
and the financial	S R	calculate the	
implications of		energy and	
waste		main	
	4	macronutrients	
	Y N	and	
		micronutrients	
	1 YV	in the	
		following:	
		(i) a recipe	
		(ii) a meal	
		(iii) an individual's	
		existing diet over	
		a period of time	
		use nutritional	
		information/dat	
		a to determine	
		why, when	
		and how to make	
		changes to:	
		(i) a recipe, e.g.	
		increase dietary	
		fibre (NSP)	
		content	
		(ii) a menu, e.g.	
T	A data A	reduce saturated	data
	MAUS AI	fat content	aus

		<ul> <li>(iii) a diet, e.g. to increase energy intake prior to a sporting activity or to meet the new recommendations for free sugars</li> <li>show how an understanding of energy balance can be used to maintain a healthy body weight throughout life</li> </ul>		
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Ludus Admirandus