

Design Technology: Autumn

Year Group: I

	Year 1				
Medium Term Plan Subject: DT	National Curriculum links:				
Year Group: 1					
Term: Autumn Cooking and nutrition Tonic: Food • use the basic principles of a healthy and varied diet to prepare dishes					
Topic: Food	 use the basic principles of a hearthy and valled diet to prepare dishes understand where food comes from 				
Unit: Fruit and Vegetables					
	Design				
	 generate, develop, model and communicate their ideas through talking, drawing 	ing, templates, mock-ups and, where			
	appropriate, information and communication technology				
	Make				
	 select from and use a range of tools and equipment to perform practical tasks finishing] 	[for example, cutting, shaping, joining and			
	 select from and use a wide range of materials and components, including const 	struction materials, textiles and ingredients			
	according to their characteristics				
	Evaluate				
	 evaluate their ideas and products against design criteria 				
	Selence				
	<u>Science</u> <u>KS1 Programme of Study – Years 1 and 2</u>				
	Working scientifically:				
	 Identifying and classifying 				
	 Using their observations and ideas to suggest answers to questions 				
New learning vocabulary:					
с ,					
Lesson:	Suggested Activities	Suggested Outcomes			
Learning Objective					
Lesson 1	<u>Starter</u>	Pupils with secure understanding			
		indicated by: Their ability to			



		Tear Group.
LO: To identify if a food is a fruit	Show pupils a selection of the cards from the Activity: Fruit and vegetable picture cards. As you hold each one	describe fruits and vegetables and
or a vegetable	up, ask the children what the picture is of (for example, a banana, potato, tomato).	explain why they are a fruit or a
		vegetable.
Success criteria:	Accept one word answers such as 'banana' initially, but then push the children to add one additional fact or	
• I can name a number of	adjective: for example, 'a banana, it is a fruit' or 'a banana, it is yellow/soft/curved'.	Pupils working at greater depth
fruits and vegetables		indicated by: Their ability to
 I know how to determine 	What am I?	describe fruits and vegetables and
if something is a fruit or a	When the children have recapped the names of common fruit and vegetables and their features, play the	explain why they are a fruit or
vegetable	game 'What am I?'	vegetable. Their ability to describe
 I understand that some 		fruits and vegetables by their
foods we call vegetables	Tell children you are thinking of a fruit or vegetable and that they have to ask questions that can only be	properties.
are actually fruits	answered with 'yes' or 'no'. Once at least three questions have been asked, the children can take a guess.	
	*Avoid choosing a fruit or vegetable that you might refer to later in the lesson as an example of something not	
	having the fruit/vegetable classification that the children might expect (for example cucumber and tomato).	
	having the mult/vegetable classification that the children might expect (for example cucumber and tomato).	
	Encourage the first question to be "Is it a fruit or vegetable?" so that children are conscious of the	
	differentiation that will be explored during the rest of the lesson. It might play out as follows:	
	- Is it a vegetable? (No)	
	- Is it shaped like a circle? (No)	
	- Is it green? (No)	
	- Is it yellow? (Yes)	
	- Is it a banana? (Yes!)	
	Let a pupil take the role of the teacher - but make sure they first tell you the fruit or vegetable they are	
	thinking of so you can step in to correct any inaccurate answers!	
	Main Activity	
	Quick Fire - fruit or vegetable? (5 minutes)	
	Show children the cards from the Activity: Fruit and vegetable picture cards again, but this time ask them to	
	classify each as either a 'fruit' or a 'vegetable'.	
	Tell the children that some food items we might consider to be vegetables are actually fruits. Ask if they know	
	how you can tell which is which and allow them time to talk and share their thoughts. You will probably find	
	that their answers revolve around expectations of taste, for example, fruit is sweet tasting.	



Explain that the fruit of a	plant is the part that co	ontains seeds.	
Searching for seeds (10)	minutes)		
		prior to the lesson, give each table a selection and a large	
piece of sugar paper divi	ded into two with the he	eadings 'Fruits' and 'Vegetables'.	
Tell children that the frui	t and vegetables are not	t to be eaten but investigated!	
Explain that the children			
	name on a post-it note		
	m and decide if the item	has seeds or not. Fruits or Vegetables on the sugar paper, depending on	
		and so is a fruit) or no seeds (and so is a vegetable).	
Every child should get an	opportunity to handle e	each fruit, looking for seeds.	
*The food will be handle	d and not eaten so to a	void wasting too much, make up as many different plates as	
		void wasting too much, make up as many unterent plates as	
there are tables, with dif	ferent fruit and vegetab	les on each, and rotate the plates throughout the activity.	
	_		
Below is a selection of fr	uit and vegetables and v	vhere they sit in the fruit and vegetable divide, based on	
Below is a selection of fr	uit and vegetables and v		
Below is a selection of fr whether or not they hav The ones in red should b	uit and vegetables and w e seeds. Those highlighte	vhere they sit in the fruit and vegetable divide, based on	
Below is a selection of fr whether or not they have	uit and vegetables and w e seeds. Those highlighte	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of fr whether or not they hav The ones in red should b	uit and vegetables and w e seeds. Those highlighte	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of fr whether or not they hav The ones in red should b vegetables.	uit and vegetables and w e seeds. Those highlighte e included in your select	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of fr whether or not they have The ones in red should b vegetables.	uit and vegetables	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of friwhether or not they have The ones in red should bivegetables.	uit and vegetables and w e seeds. Those highlight e included in your select Vegetables potato	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of fr whether or not they have The ones in red should b vegetables. Fruit pepper* avocado* cucumber*	uit and vegetables and we e seeds. Those highlight e included in your select Vegetables potato carrot green bean	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	
Below is a selection of friwhether or not they have The ones in red should bivegetables. Fruit pepper* avocado*	uit and vegetables and w e seeds. Those highlight e included in your select Vegetables potato carrot	where they sit in the fruit and vegetable divide, based on ed are the ones that children might not know are fruits!	



grape (with seeds)	spinach		
apple	celery		
orange			
kiwi			
strawberry			
banana			
pineapple			
mango			
 table's sheet of sugar paper Findings (5 minutes) Sit children in a circle and pand vegetable that they invegetable hoop. Leave the pieces of fruit the depth. Tasting (10 minutes) Ask children if they were sactually considered to be for cut up small pieces of a fruppeper), and also cut up srito taste and ask them why fruit. 	er to see if there are an place two sorting hoop vestigated, and ask the nat some children place urprised by the finding ruits. uit that is often conside mall pieces of a fruit th they think we conside	t each fruit or vegetable belongs to, cast your eye over each y misconceptions and then bring them back to the carpet. s in the middle. Show the class each different piece of fruit em in which hoop it should be placed: the fruit hoop or the ed in the wrong category until last and discuss these in more s that peppers, avocados, tomatoes and cucumbers are ered to be a vegetable (such as cucumber, tomato, avocado, at is considered to be a fruit. Give the children a piece of each r a cucumber (for example) a vegetable, when it is actually a nber) may not taste sweet but they are still fruits if they have	



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Play the 'W Choosing, f Lesson 2 LO: To identify where plants grow and which parts we eat Success criteria: • I can remember how to	Again that there are some fruits that we cannot eat because they are not edible and may be bad for us.	Pupils with secure understanding indicated by: Their ability to explain a range of places that fruits and vegetables grow.
Lesson 2 LO: To identify where plants grow and which parts we eat Success criteria: I can remember how to	'What am I?' game again but this time test pupils' understanding of what they have learnt by , for example, 'cucumber' but classifying it as a 'fruit' – who can get to the correct answer? <u>Starter</u> children how we classified the fruit and vegetables last week. How did we decide which was a fruit and as a vegetable? (By looking at which has seeds.)	indicated by: Their ability to explain a range of places that fruits and
LO: To identify where plants grow and which parts we eat Success criteria: I can remember how to which was Show child tell you as which can be a complete the second secon	children how we classified the fruit and vegetables last week. How did we decide which was a fruit and as a vegetable? (By looking at which has seeds.)	indicated by: Their ability to explain a range of places that fruits and
 determine if a root is a fruit or a vegetable I know that fruits and vegetables grow in one of three places: on trees or vines above the ground below the ground below the ground Fright or seeds, can Fright of the seeds, can Kow slide of the seeds of	as a class whether the card you are holding shows a fruit or a vegetable. Ask the children to (sing/shout/laugh/roar the answer! o pupils that the fruit and vegetables are all plants and grow in three possible places – can they think these places might be? Take children's answers and combine them into three categories: Trees or vines Above the ground Below the ground o the children that knowing which is a fruit and which is a vegetable, based on whether they have in tell us where they grow too. Fruit grows on trees or vines and is the part of the plant that has seeds. Vegetables grow on plants above or below the ground. de one of the <i>Presentation: Where fruit and vegetables grow</i> . : watch <i>Safe YouTube SciShow Kids video 'What's the difference between fruits and vegetables?</i> ' <u>Main Activity</u> Igh slides two to 12 of the <i>Presentation: Where fruit and vegetables grow</i> is introduce which part of each plant we eat:	Pupils working at greater depth indicated by: Their ability to explain that vegetables primarily grow above or below ground whilst fruits primarily grow in trees, bushes or vines. Their ability to explain that we eat different parts of plants and to be able to give examples.



- fruit - leaves - root - stem	
Now show the children a physical example of a selection of five to six fruits and vegetables that typically grow in your area. Discuss together where these fruit and vegetables must grow based on their characteristics. Avoid using the same fruit and vegetable examples as illustrated in the <i>Presentation: Where fruit and vegetables grow</i> , but you could use the examples highlighted below.	
Now show children a physical example of five to six fruits and vegetables typical to where they grow. Discuss together where they must grow based on their characteristics (do not use the same examples as those in the Presentation – you could use the ones highlighted as examples below: tomatoes, apples, lettuce, celery, carrots).	
 Fruit We eat the fruit of the plant so they must grow on a fruit or a vine. A tomato is an example of a fruit that grows on a vine, and an apple is an example of a fruit that grows on a tree. Vine – tomatoes – cut open a tomato to show the children the seeds of the fruit. Try and buy tomatoes that are still on the vine so children can understand what this means. Tree – apples – cut open an apple to show the children the pips – the seeds of the fruit. 	
 Vegetables Above the ground – lettuce. Show the children the lettuce and explain we are eat the leaves of the plant, even though it has roots that anchor it to the ground. Above the ground – celery. Show the children the celery, preferably choose celery that still has the leaves attached. Explain that the celery is the stem of the plant (technically it is the leaf stalk). The roots of the plant are under the ground and the leaves come off the celery stalks. We can also eat the leaves. Underground – carrots. Show the children the carrots, preferably choose carrots that still have their leaves attached so it is easier to show the children that the carrot is actually the root of the plant and grows underground, while the leaves are above ground. You can explain that carrots (and turnips, potatoes, radishes, swedes) are all roots and that is why we call them root vegetables. 	
Children can use the Activity: Where our fruit and vegetables grow to identify where familiar fruit and vegetables grow by cutting and pasting pictures of fruit and vegetables onto a landscape – either on a tree, vine, above ground or below ground.	



	Extension: Children can write next to the pasted image whether we eat the fruit, leaves, stem or root of each of these plants, and/or they can draw any additional fruit and vegetables they know and stick them in the correct place.	
	<u>Plenary</u> Go through the Staying Healthy food quiz - Food (Sources) to test children's general knowledge. This quiz addresses the requirements of the National Curriculum KS1 Science for children aged 5 and 6 in years 1 and 2. Specifically this quiz is aimed at the section dealing with staying healthy and the sources of our food.	
Lesson 3	<u>Starter</u>	Pupils with secure understanding
LO: To taste and compare fruit and vegetables	Tell children that today they will be deciding on the ingredients they need to make a smoothie. Ask children what a smoothie is – what normally goes into a smoothie? Why is a smoothie such a good drink to	indicated by: Their ability to describe basic characteristics of fruit and vegetables.
Success criteria:	have? Watch the <u>The 'Five a Day' song</u> that explains the importance of fruit and vegetables and food hygiene.	Pupils working at greater depth
 I can suggest what fruits and/or vegetables are in a drink 	Explain to children that although the thought of drinking blended spinach doesn't sound very tasty, a mixture of fruit and vegetables in fact tastes very nice and is really good for you.	indicated by: Their ability to describe basic characteristics of fruit and vegetables in detail,
 I can taste fruits and vegetables and describe their: 	Let children taste the smoothie without telling them what the flavour is. Tell them to sip it so they can keep thinking about what flavours they can taste – encourage them to think about the colour too!	considering: how the ingredients work together, what other combinations would be better and
- Appearance/feel - Smell	Come up with a final decision as to what the smoothie flavour is and then reveal the actual ingredients!	what ingredient they would remove.
 Taste I can make a choice as to 	*For the remainder of this topic you can choose to do one of the following two activity options:	
what smoothie I will make and why	1) Follow the lesson plans as they are written – children will be making one of three smoothie recipes	
	2) Give children the opportunity to taste and combine ingredients to create their own smoothie recipe which must include one vegetable and a maximum of three fruits (all resources for this option can be edited as appropriate).	
	Tell children that they will be making a smoothie of their own from one of three recipes but that before they make one, they need to test/taste which ingredients they like and which they don't.	



					Tear Group: T
	Show children the Smoothie				
	Main Activity Children should taste the ingredients of the following smoothies:				
	Carrot, pineapple and mango smoothie	Spinach, banana, grape and apple smoothie	Cucumber, banana and strawberry smoothie		
	 Eight baby carrots, topped and tailed Half a pineapple, in batons One mango, prepared as fingers 	 Four handfuls of fresh spinach leaves Two bananas Half a punnet of green grapes Two apples, cored and sliced into eighths 	 One cucumber chopped into batons Two bananas Half a punnet of strawberries 		
	Each recipe makes four servin				
	*To avoid a choking hazard, cut the grapes lengthways, not across the middle. Before/after tasting each, the pupils need to write down what they think of them with regards to their: appearance, feel, smell and taste – they then put a tick or cross to say whether or not they like it. The smoothie they choose will be whichever has the most amount of ingredients they like. <u>Plenary</u> Ask children what they thought of all of the separate ingredients – referring to their worksheets, ask them for the keywords they used to describe them.				
	Ask pupils which smoothies th information to calculate the q	-		ard (use this	
Lesson 4	Watch the BBC video: <u>'Followi</u>	Starte			Pupils with secure understanding indicated by: Their ability to



Go over the safety aspects of using a blender. Explain to the children that they must only ever touch the buttons when instructed to by the adult they are working with.	prepare fruits and vegetables to make a smoothie.
Explain that while many fruits and vegetables don't need to be cooked before they can be eaten, we do still need to prepare them before we put them into our mouths. Ask: What might you need to do to a banana before you eat it? A Carrot? Fruits and vegetables often need to be peeled or sliced. Ask children what they think these words mean. Why do we need to peel some things? What might the hard skin that we peel off be for?	Pupils working at greater depth indicated by: Their ability to prepare carefully selected fruits and vegetables to make a smoothie that they consider will have good flavour combinations.
Ask children: Who has peeled a fruit before? If so, what? Hopefully many children will have peeled a banana or small clementine. Explain that some fruits and vegetables are harder to peel and we can't always use our fingers.	
Carrots (which don't have to be peeled but which we often do) require a peeler – show children how to use this (talk about how to hold it, which direction to pull and how to avoid cutting ourselves).	
Be explicit about washing your hands before you touch any food stuff (drying them on a paper towel or hand towel).	
Ask children: What must we consider before cutting a fruit or vegetable? Safety procedures. Show children the equipment they will be using (chopping board, knives, blender). Show them how to hold food in a bridge position with the knife under the bridge (well away from your fingers).	
Show children the range of fruit and veg from the smoothies they will be making and ask what they would need to do to prepare them: bananas, apples, cucumbers, carrots, spinach, strawberries, etc – tell children that we will remove the skin of the apples and cucumber.	
Main Activity	
Make: (20 minutes) The number of smoothies you can make will depend on the number of blenders you have and adults helping. While some children are making, the rest will be designing – see ' Design ' below!	
*The smoothie recipes include some fruits that will be hard for the children to chop with just a butter knife. It's advisable to pre-cut some ingredients (listed below) using a sharp knife. The children can then chop them safely with the knives they are using.	
	buttons when instructed to by the adult they are working with. Explain that while many fruits and vegetables don't need to be cooked before they can be eaten, we do still need to prepare them before we put them into our mouths. Ask: What might you need to do to a banana before you eat it? A Carrot? Fruits and vegetables often need to be peeled or sliced. Ask children what they think these words mean. Why do we need to peel some things? What might the hard skin that we peel off be for? Ask children: Who has peeled a fruit before? If so, what? Hopefully many children will have peeled a banana or small clementine. Explain that some fruits and vegetables are harder to peel and we can't always use our fingers. Carrots (which don't have to be peeled but which we often do) require a peeler – show children how to use this (talk about how to hold it, which direction to pull and how to avoid cutting ourselves). Be explicit about washing your hands before you touch any food stuff (drying them on a paper towel or hand towel). Ask children: What must we consider before cutting a fruit or vegetable? Safety procedures. Show children the equipment they will be using (chopping board, knives, blender). Show them how to hold food in a bridge position with the knife under the bridge (well away from your fingers). Show children the range of fruit and veg from the smoothies they will be making and ask what they would need to do to prepare them: bananas, apples, cucumbers, carrots, spinach, strawberries, etc – tell children that we will remove the skin of the apples and cucumber. <u>Main Activity</u> Make: (20 minutes) The number of smoothies you can make will depend on the number of blenders you have and adults helping. While some children are making, the rest will be designing – see 'Design' below! *The smoothie recipes include some fruits that will be hard for the children to chop with just a butter knife. It's advisable to pre-cut some ingredients (listed below) using a sharp knife. The children can then chop t



*Alternatively, you could use frozen preparation children are exposed to	-	-	
 Mango – remove the skin, e Apples – de-core and cut in Cucumber – cut into thirds Using the 'bridge' method of cutting 	n, de-core and cut into quite sm cut the flesh into fingers nto eighths lengthways and then slice each g as demonstrated in the teacher	all batons segment into sixths to make batons video, <i>Smoothie Making,</i> the children	
should then be able to safely chop t	he fruit and vegetables.		
Carrot, pineapple and mango smoothie	Spinach, banana, grape and apple smoothie	Cucumber, banana and strawberry smoothie	
 Eight baby carrots, topped and tailed Half a pineapple, in batons One mango, prepared as fingers 	 Four handfuls of fresh spinach leaves Two bananas Half a punnet of green grapes Two apples, cored and sliced into eighths 	 One cucumber chopped into batons Two bananas Half a punnet of strawberries 	
	f the counters by highlighting wh	oll up sleeves, clean counters (I always tal ere they have been sitting/playing and	lk
Arrange children on tables by the sm and veg is prepared at each table –		n to make it so that only one group of frui ate.	it
Give children the appropriate <i>Smoo</i> smoothies. Children should only ma blender under adult supervision.		e to follow so they can make their in any chopping and operating of the	
If the smoothies are too thick, they	can be thinned down with water	or orange juice and then blended again	1
		or orange juice and then blended again.	



Children use the necessary <i>Smoothie Carton Design Templates</i> to design their smoothie carton based on the ingredients of their recipe. They can include a name, a great opportunity to use some alliteration – 'Banana Blitz' or 'Strawberry, Spinach Surprise', images and a list of ingredients.	
Plenary You should take a picture of each child with their smoothie and ask them to discuss and then fill in the two thought bubbles in the <i>Smoothie Evaluation</i> ('What I found hard was' 'What I learned was'). Using the second cups of smoothies, give children a sample of a smoothie that they didn't make and ask them to comment on the colour, texture and taste. If you were not able to make lots, you can do this in pairs – you may or may not choose to record this.	