Agrii Food, Farming and Environment **Activity Pack**







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Agri intelligence



Hello! In this activity book you will find out more about food, farming and the environment. Look out for the speech bubbles for handy hints and information!

Tim

What is a crop? A crop is a plant that we grow to turn into food. Some crops are grown for us humans to eat, but others are grown to feed animals as well, like grass!

In fact some crops aren't grown to feed us or animals, but are grown to be turned into non food items.

C____n

Can you guess the two below?

1



Chris

Look out for these boxes on each page, which tell you the difficulty level of the activities on that page.

Just like Tim, I'm an agronomist. An agronomist is someone who looks after the crops on a farm with the farmer.



Medium

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Ben





Can you think of a way to protect soil after harvest? By planting **c____ c____**

Why is soil important?

If the soil is healthy, the crop growing in it will grow well and will provide future crops with nutrients too.

A healthy soil contains lots of worms. Can you help this worm find its way through the maze of tunnels to escape the hungry bird?





Getting the soil ready . . .

Can you untangle these anagrams?

Clue: They're all words to do with soil and machinery

ROTCAR <mark>T</mark>	AUV <mark>C</mark> LTIRTO	DE <mark>S</mark> ES
<mark>e</mark> artwhmro	T <mark>R</mark> OSO	TA <mark>₩</mark> RE



2



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...then it's time to sow the seed. Farmers use a piece of machinery called a drill to plant seeds.

Lorraine



Colour in this picture of a drill planting seeds.

Can you match the pictures of these common seeds, with the crops they grow into?



M _ _ E (Hint – it's not normally red!)





Medium

P_ _

(Hint – these are usually a bright green!)

3





 $B R _ Y$



Can you name these baby animals and draw a line to match them to the name of their mum?

Then have a go at colouring them in!



In the UK we grow all sorts of crops – can you find some of them in our wordsearch?

Becky

Ρ	S	Τ	А	E	Н	W	S	Ρ	Т
А	Т	K	Ρ	I.	L	Т	0	S	0
R	0	Α	Ρ	0	А	Т	U	E	Μ
S	R	L	L	0	А	G	G	S	А
Ν	R	Е	Е	Т	А	Α	Е	Y	Т
	А	V	0	R	В	Ρ	R	Е	0
						P E			
Ρ	С	E	В	В	A		S	L	E
P S	C S	E E	B A	B R	A F	E	S O	L R	E S

Medium

APPLE BARLEY CABBAGE CARROTS GRASS KALE OATS ONION OSR PARSNIPS POTATOES SUGAR BEET TOMATOES WHEAT GRAPES





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Here are some more crops that we grow in the UK. Join the dots and colour them in.









6



Easier





Pe









Medium

Lasie

Have a go at circling which common foods you think are usually made from wheat.

The type of grass that you're probably more familiar with is grown to feed farm animals. Which farm animals might eat the grass below? Can you draw them?

7







A plant can get most of the nutrients it needs from the soil – especially if the soil is healthy. But just like humans, our crops need a little bit of help sometimes.

Can you unscramble these anagrams to reveal some of the common nutrients that we add to our crops?

GENTRONI	N	N	SASUMITPO	Ρ_	M
NOBOR	Β	N	CUMILAC	С_	M
RUSPHUL	S	R	CINZ	Ζ_	_ C









Kevin

Can you name some of the types of food that these animals might eat?







Farm animals eat the stems and leaves of grasses, grains like corn and even vegetables!

9



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Matt

Have a go at the crossword using the clues below! We've put in a few extra letters to help you.



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Across

- 1. Chemicals used to kill plants or weeds
- 5. A chemical that destroys fungus
- 6. Insects or animals that can harm crops

Down

- 2. A prolific weed that can affect cereal based crops
- 3. Illnesses that affect crop production
- 4. Chemicals used to kill pests

A weed is any plant that isn't growing where you want it!

Seed from last year's crop can cause problem weeds, and grasses can be weeds as well, like Blackgrass. This weed causes many problems for farmers in the UK.





Some insects are pests, but there are some insects that farmers couldn't live without! We rely on pollinators like bees, and we need to look after them.



Rob



Which route does the bee need to take to go to the tasty flowers on the potato plant?



Did you know?

Bumblebees are often brought in to help with the pollination of commercially grown tomato plants?

Anagrams

As well as insects like bees, which pollinate our crops, farmers also rely on other insects and animals, which are natural predators of some of the pests we've talked about. Can you unscramble these anagrams to name a few?

1 2 3

BESTLEE

B....

12

Colour by numbers!

Easier

LACEGWIN

L.....

ALDYBIDR



Difficult

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Medium

In fact farmers have a huge role to play in looking after the environment.

Amy

Can you complete some of the ways farmers help to look after the natural environment?

By making sure N_____ that they put on the fields don't run into rivers Planting and maintaining H_____ Providing food and H_____ for animals, birds and insects

Can you draw a line from the wildlife examples to the places on a farm you might expect to find them?

Wildlife

Features

Songbirds	Farmhouse
Harvest mice	Field of crops
Barn owl	Barns
Newts	Buffer strip
Beetles	Hedgerow



Can you colour in the mouse on the left to match the one on the right?



Did you know?

Buffer strips planted at the edge of a field can provide a valuable wildlife habitat – particularly when planted with a nectar or pollen rich mix of plants for them to feed off.

Pond/ditch





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Difficu



Agronomists like Chris use weather stations to help them monitor what the weather conditions are going to be like for the growing crop. The weather also affects spraying and pest and disease risk, so it is important to know!

Can you work out what the different instruments on the weather station are used to measure? We've filled one in for you. Then colour in the symbols.





Kathryn

The images on this page show the steps that happen to a crop before it ends up on your plate. Using what you've learnt from earlier in the booklet, can you write what's happening in each of the pictures?





Steve

From field to fork

Can you put the below pictures into the correct order by numbering them 1-3?





Mark



Food waste quiz! (multiple choice)

- 1. How many millions of tonnes do you think food waste totals in the UK per year, according to DEFRA? 3,5 / 10.2 / 8.6
- 2. Of the total food waste in the UK, what percentage roughly do you think is made up from household waste? 35%, 48%, 64%

The answer is enough food to fill the space of the Royal Albert Hall in London 130 times over!

Here are some simple steps families could take to reduce the amount of food that gets wasted at home?

Buy and cook only what you need, make a meal plan!

Don't throw away leftovers, get creative!

Keep your sliced bread in the freezer and take out what you need

Can you think of more?



Difficult



Nick

Agronomists work with their farming customers to help them farm sustainably. Sustainability means "meeting the needs of the present, without compromising the ability of future generations to meet their own needs." In other words, "we shouldn't use up everything today that people of tomorrow will also need (UN)." A good example of this is thinking about a money box. If you are given pocket money, if you spend too much too quickly, your money will run out. However if you spend it slowly, it will last and you won't run out before you get your next pocket money!

Sustainable farming is all about taking a whole farm approach, using the best of modern techniques alongside tried and tested traditional methods (Linking Environment And Farming, LEAF). Can you fill in the blanks to reveal what this model is called?

I_____ F___ M_____ (IFM)!

Have a go at naming the sections below, that make up the IFM whole farm approach.





Our crops wouldn't grow without pollinators like this little honey bee. This busy little worker and his friends have been busy buzzing all over our activity book. **asier**

How many of them did you spot?

Answer:

Colour me in!



Did you enjoy this activity book and want to find our more about food and farming?

Get in touch with us for more information or to find out which events we'll be at next – please email info@agrii.co.uk or speak to your usual Agrii contact.

ANSWERS TO QUIZZES:

- Page 1 Bio Diesel and Cotton
 Page 2 Tractor, Cultivator, Seeds, Earthworm, Roots, Water
 Page 3 Maize, Barley, Oilseed Rape, Wheat, Pea
 Page 4 From left to right; Sheep, Cow, Chicken, Pig
 Page 6 Cabbage, broccoli, corn, potatoes, pumpkin, beetroot, lettuce, peas, onions
 Page 7 1. All but yoghurt on right 2. Cows, sheep
 Page 8 1. Nitrogen, Potassium, Boron, Sulphur, Potassium, Calcium, Zinc 2. Corn
 Page 9 Chickens: grains, vegetables Cows: grass, grains, soya Sheep: grass, other plants, legumes Pig: grass, vegetables, roots, most thingsl
 Page 10 Herbicides, Blackgrass, Diseases, Pesticides, Fungicide, Pests
 Page 11 1. Aphid 2. Fox 3. Pigeon 4. Deer 6. Fleabeetle 7.Goose 8.Mouse 9.Slug Spells: Honeybees

- Page 12 Beetles, Lacewing, Ladybird
- Page 12 beenes, tacewing, tacyona
 Page 13 1. Nutrients, Hedgerows, Habitats; 2. Songbirds: Barn/hedgerow, Mice: Barn/field/farmhouse, Owl: Barns, Newts: Pond/ditch, Beetles: Buffer strip
 Page 14 Rainfall, Speed and direction, Sunshine, Leaf Page 15 Cultivating the land, planting seeds, crop emerging/sprouting, growing crop, helped by rain and sunshine, harvested, out of field on trailer, transported to factory, processed on production line, finished bag of carrots, supermarket
 Page 16 1 3,1,2, 2-1,3,2, 3-2,3,1, 4-1,3,2
 Page 17 1:10.2, 2:64%, Can you think if more? Feed animals like chickens or pigs with scraps, don't put too much on your plate!
 Page 18 1: Integrated Farm Management. 2: Planning, Soil Management, Crop Health & Protection, Pollution Control, Animal Husbandry, Energy Efficiency, Water Management, Landscape &

19

- Nature Conservation, Community Engagement.



