



# RESOURCES LINK

LEVEL 2 UNIT 7

VERSION 1 JANUARY 2014

## SCIENCE

Level 2 and Level 3

# WELCOME

Resources Link is an e-resource, provided by OCR, for teachers of OCR qualifications. It provides descriptions of, and links to, a variety of independent teaching and learning resources that you may find helpful.

In Resources Link you will find details of independent resources, many of which are free: where this is the case this has been indicated.

If you know of other resources you would like to see included here, or discover broken links, please let us know. We would also like to hear from you if have any feedback about your use of these, or other, OCR resources. Please contact us at [resourcesfeedback@ocr.org.uk](mailto:resourcesfeedback@ocr.org.uk).

We leave it to you, as a professional educator, to decide if any of these resources are right for you and your students, and how best to use them.

To give us feedback on, or ideas about the OCR resources you have used, email [resourcesfeedback@ocr.org.uk](mailto:resourcesfeedback@ocr.org.uk)

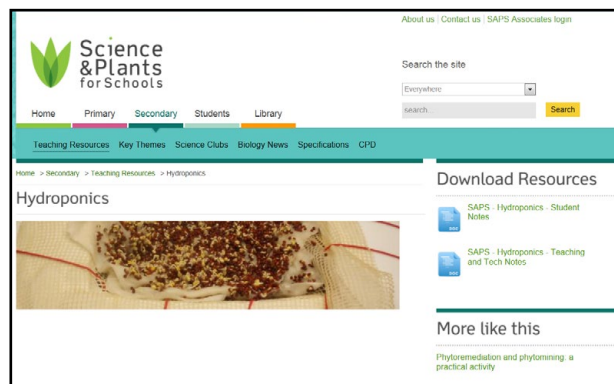
**OCR Resources: *the small print***

OCR's resources are provided to support the teaching of OCR specifications, but in no way constitute an endorsed teaching method that is required by the Board and the decision to use them lies with the individual teacher. Whilst every effort is made to ensure the accuracy of the content, OCR cannot be held responsible for any errors or omissions within these resources.

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## Hydroponics



A practical investigation into hydroponics.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

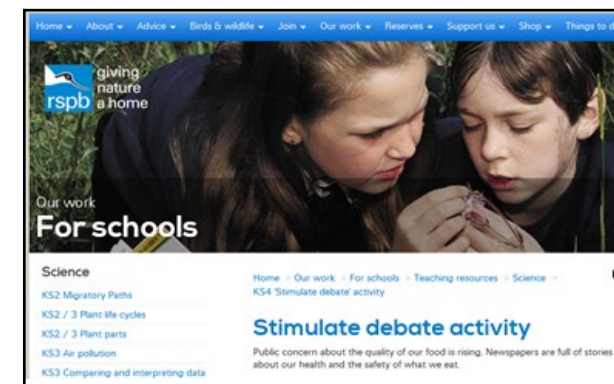
**Format:** Website with links to two Word documents

<http://www.saps.org.uk/secondary/teaching-resources/847-hydroponics>

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at

[resourcesfeedback@ocr.org.uk](mailto:resourcesfeedback@ocr.org.uk)

## Is farming ruining our landscape?



A structured debate on the impact of farming on the landscape.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website with links to downloadable documents.

[http://www.rspb.org.uk/ourwork/teaching/resources/science/stimulate\\_debate.aspx](http://www.rspb.org.uk/ourwork/teaching/resources/science/stimulate_debate.aspx)

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## Hydroponic Farmer Produces Year-Round Harvest



Short video of the different farming practices - hydroponics.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website

<http://www.youtube.com/watch?v=YH4w-xlOxcs>

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## Jimmy Doherty - Why Choose Red Tractor Pork? Give A Fork About Your Pork



Short video of the different farming practices – rare breeds.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website

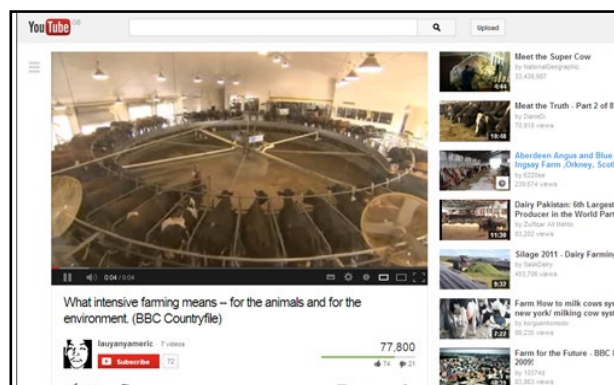
[http://www.youtube.com/watch?v=lzuNOaEXc\\_E](http://www.youtube.com/watch?v=lzuNOaEXc_E)

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## What intensive farming means - for the animals and for the environment (BBC Countryfile)



Short video of the different farming practices – Intensive farming.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website

<http://www.youtube.com/watch?v=tJpxaWR2J-c>

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## Organic vegetable farming with Shillingford Organics



Short video of the different farming practices - Organic.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

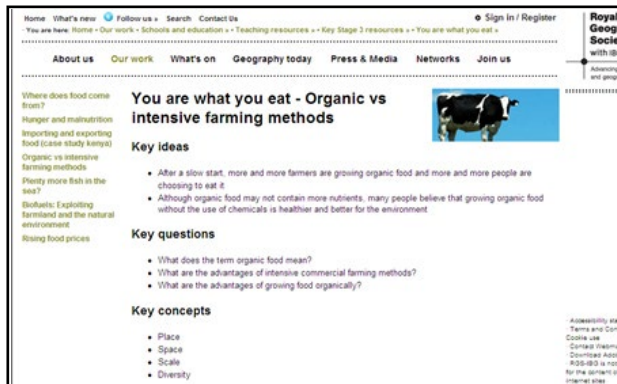
**Format:** Website

[http://www.youtube.com/watch?v=F6i4O0g\\_9GA](http://www.youtube.com/watch?v=F6i4O0g_9GA)

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## You are what you eat – Organic vs intensive farming methods



Audio of a farmer talking about organic vs intensive farming methods.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website

[http://www.rgs.org/OurWork/Schools/Teaching+resources/  
Key+Stage+3+resources/You+are+what+you+eat/Organic+vs+intensive+farming+  
methods.htm](http://www.rgs.org/OurWork/Schools/Teaching+resources/Key+Stage+3+resources/You+are+what+you+eat/Organic+vs+intensive+farming+methods.htm)

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## Soil Association Farm trails



Discover more about organic farming by 'walking' one of the web-based farm trails provided by the Soil Association.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

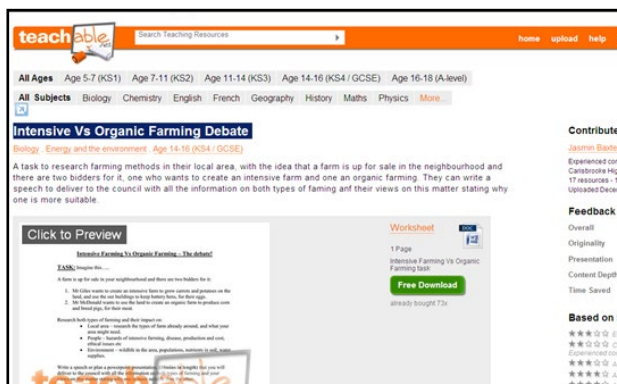
**Format:** Website

<http://www.farmtrails.org.uk/>

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## Intensive vs Organic farming Debate



A task to research farming methods in the learner's local area.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO1 'Understand the  
different practices used in commercial farming'

**Cost:** Free

**Format:** Website

<http://www.teachable.net/3682-intensive-vs-organic-farming-debate-gcse/>

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## How commercial growers increase crop yield



A short video showing innovative ways in which commercial growers increase crop yield.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

**Format:** Website containing a video

<http://www.bbc.co.uk/learningzone/clips/how-commercial-growers-improve-crop-yield/12902.html>

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## Algal Balls – Photosynthesis using algae wrapped in jelly balls



Practical guidance on how to make algal balls as a reliable way of investigating photosynthesis.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

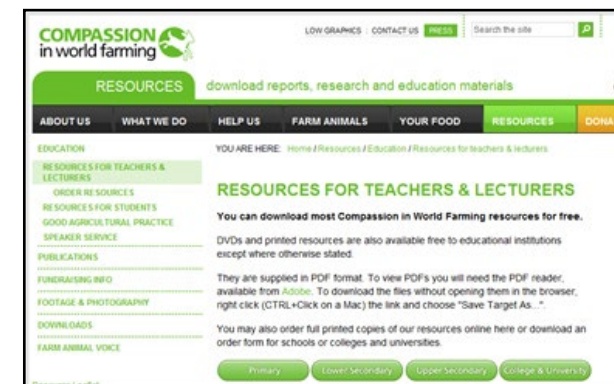
**Format:** Website with links to Word documents

<http://www.saps.org.uk/secondary/teaching-resources/235-student-sheet-23-photosynthesis-using-algae-wrapped-in-jelly-balls>

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## Compassion in world farming



Web page with video links and pdf links for a wide range of relevant teaching materials.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

**Format:** Website with video and PDF document links

[http://ciwf.org.uk/resources/education/resources\\_for\\_teachers/default.aspx](http://ciwf.org.uk/resources/education/resources_for_teachers/default.aspx)

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## Food, Farming and Fertiliser



A resource produced by GrowHow fertiliser which details the role of fertiliser in producing food.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

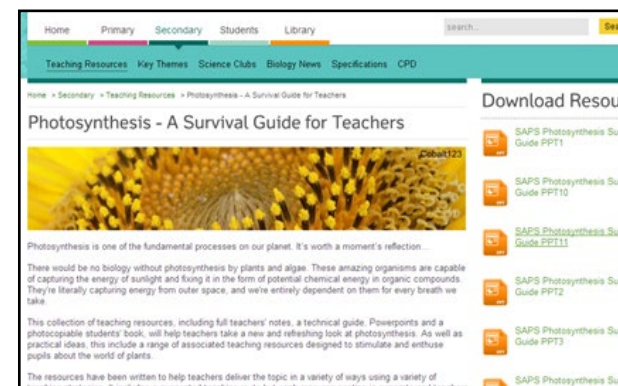
**Format:** Website with PDF document links

[http://www.growhow.co.uk/content.output/275/275/Publications/Publications/  
Educational%20Resources.msp](http://www.growhow.co.uk/content.output/275/275/Publications/Publications/Educational%20Resources.msp)

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## Photosynthesis – A Survival Guide for Teachers



A collection of teaching resources, including full teachers' notes, a technical guide, Powerpoints and a photocopiable students' book covering photosynthesis.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

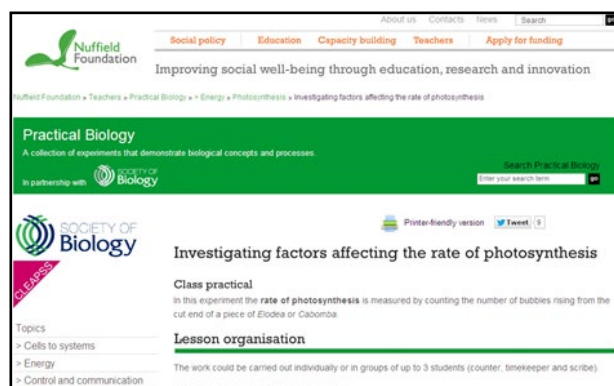
**Format:** Website

[http://www.saps.org.uk/secondary/teaching-resources/134-photosynthesis-a-  
survival-guide-teaching-resources](http://www.saps.org.uk/secondary/teaching-resources/134-photosynthesis-a-survival-guide-teaching-resources)

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## Investigating factors affecting the rate of photosynthesis



Experiment investigating the rate of photosynthesis by counting the number of bubbles rising from the cut end of a piece of Elodea or Cabomba.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the key factors that affect crop production'

**Cost:** Free

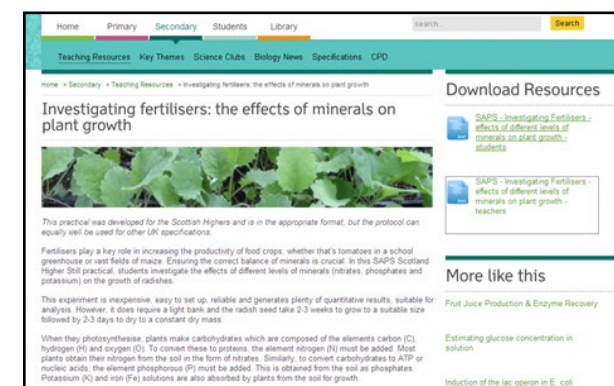
**Format:** Website

<http://www.nuffieldfoundation.org/practical-biology/investigating-factors-affecting-rate-photosynthesis>

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## Investigating fertilisers: the effects of minerals on plant growth



Practical investigating the effects of different levels of minerals on plant growth.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the key factors that affect crop production'

**Cost:** Free

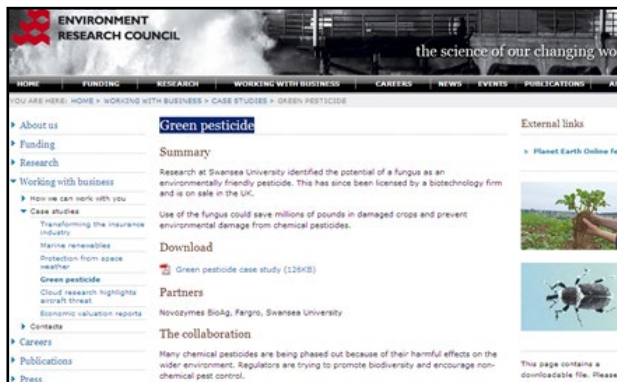
**Format:** Website

<http://www.saps.org.uk/secondary/teaching-resources/105-investigating-fertilisers-the-effects-of-different-levels-of-minerals-on-plant-growth>

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## Green pesticide



Green pesticide case study.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

**Format:** Website

<http://www.nerc.ac.uk/business/casestudies/pesticide.asp?cookieConsent=A>

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## Irrigation ideas



**Lesson Activity -** Learners learn how irrigation systems move water from one location to others where it may be needed for farming or other purposes. Students work in teams to design and build an irrigation system out of everyday items, test their system, evaluate their own results and those of other students, and present their findings to the class.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

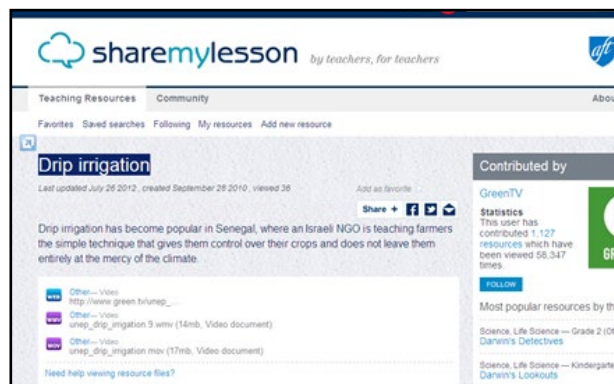
**Format:** Website

<http://www.tryengineering.org/lessons/irrigationideas.pdf>

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## Drip irrigation



Video about 'Drip irrigation'.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

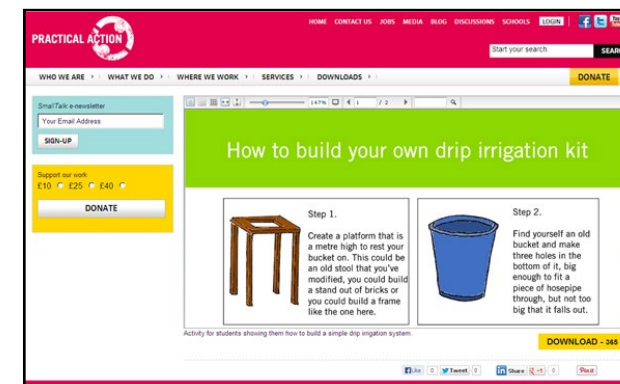
**Format:** Website

<http://www.sharemylesson.com/ResourceDetail.aspx?storyCode=6059311>

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## How to build your own drip irrigation kit



Shows learners how to build a drip irrigation system.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

**Format:** Website

<http://practicalaction.org/media/preview/16123>

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## Growing Plants in Different Soils



An investigation into the effect of water on plants.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

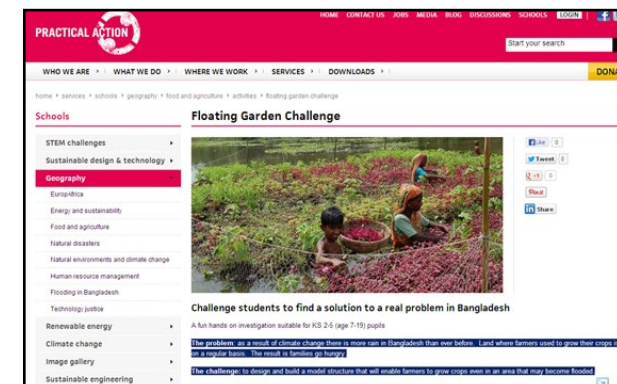
**Format:** Website

<http://www.scienceprojectideas.co.uk/growing-plants-different-soils.html>

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## Floating Garden Challenge



Challenges learners to find a solution to a real problem in Bangladesh. The problem: as a result of climate change there is more rain in Bangladesh than ever before. Land where farmers used to grow their crops is now flooded on a regular basis. The result is families go hungry. The challenge: to design and build a model structure that will enable farmers to grow crops even in an area that may become flooded.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO2 'Understand the  
key factors that affect crop production'

**Cost:** Free

**Format:** Website

<http://practicalaction.org/floatinggardenchallenge-4>

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## BBC news – scrap food sell-by dates, government urges manufacturers



A BBC news article on food sell by dates and their impact. Includes an interview with the Environment Secretary.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how food  
gets from the field to the supermarket'

**Cost:** Free

**Format:** Website with audio and video links

<http://www.bbc.co.uk/news/uk-14925046>

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## Seasonal foods



Contains a number of activities related to food miles.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how food  
gets from the field to the supermarket'

**Cost:** Free

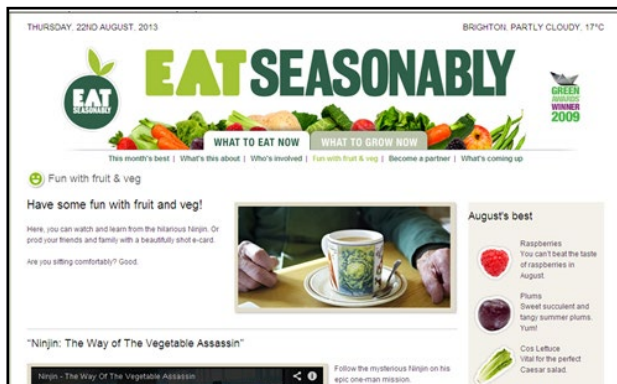
**Format:** Website

<http://education.practicalaction.org/urls/view/499>

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## Eat seasonably



A short video which highlights, in a fun way, the issues of eating unseasonable vegetables.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how food  
gets from the field to the supermarket'

**Cost:** Free

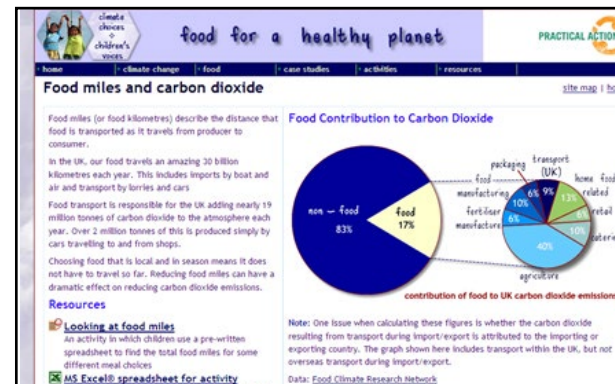
**Format:** Website

<http://eatseasonably.co.uk/what-to-eat-now/fun-with-fruit-and-veg/>

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## Food miles and carbon dioxide



**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how food  
gets from the field to the supermarket'

**Cost:** Free

**Format:** Website

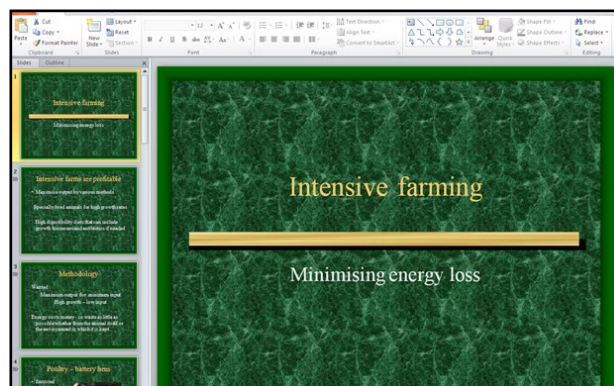
<http://www.climatechoices.org.uk/pages/food3.htm>

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## Intensive farming – Minimising energy loss



PowerPoint about the energy loss involved in intensive farming.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how good  
food gets from the field to the supermarket'

**Cost:** Free

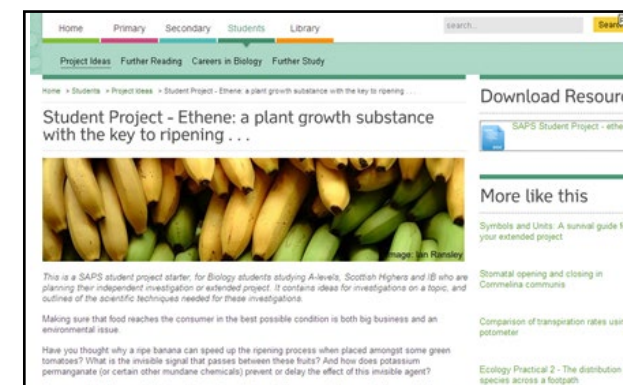
**Format:** Website

<http://www.bing.com/search?q=intensive+farming+world+of+teaching&src=IE-SearchBox&FORM=IE8SRC>

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## Student Project – Ethene: a plant growth substance with the key to ripening... in fruits and vegetables



An extended project investigating how ethene affects the ripening of fruit or vegetables.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how good  
food gets from the field to the supermarket'

**Cost:** Free

**Format:** Website

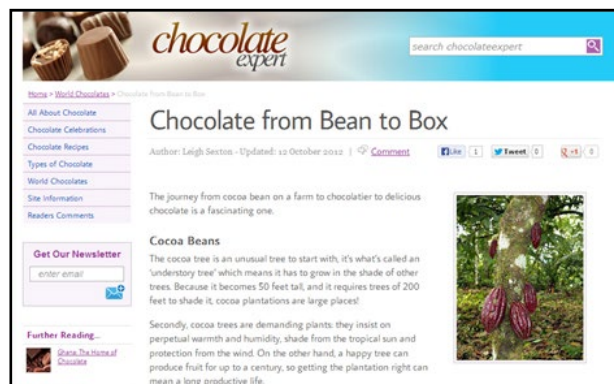
<http://www.saps.org.uk/students/projects/177-student-biology-extended-project-idea-ethene-a-plant-growth-substance-with-the-key-to-ripening->

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## Chocolate from Bean to Box



An example of how food gets from the field to the supermarket.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO3 'Know how good  
food gets from the field to the supermarket'

**Cost:** Free

**Format:** Website

<http://www.chocolateexpert.co.uk/chocolate-from-bean-box.html>

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## GM foods



Food Standards Agency resource with information and teaching tools including animations.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website

<http://www.food.gov.uk/policy-advice/gm/basics/>

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## Microbial recipes



Four recipes for practical science producing food/drinks using microbial action.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website with PDF document links

<http://www.microbiologyonline.org.uk/teachers/microbial-recipes>

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at

[resourcesfeedback@ocr.org.uk](mailto:resourcesfeedback@ocr.org.uk)

## An ancient hidden partnership



This is short video about how microorganisms can be used to secure food production for a growing population.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free but login required

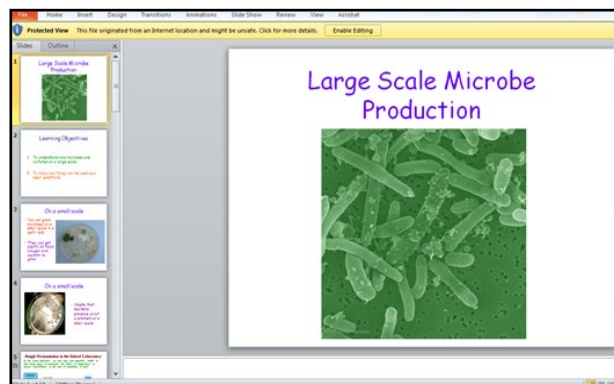
**Format:** Website with a video link

<http://www.tes.co.uk/teaching-resource/An-ancient-hidden-partnership-6265247/>

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at

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## Large Scale Microbe Production



A PowerPoint detailing how microbes are use in food production.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free but login required

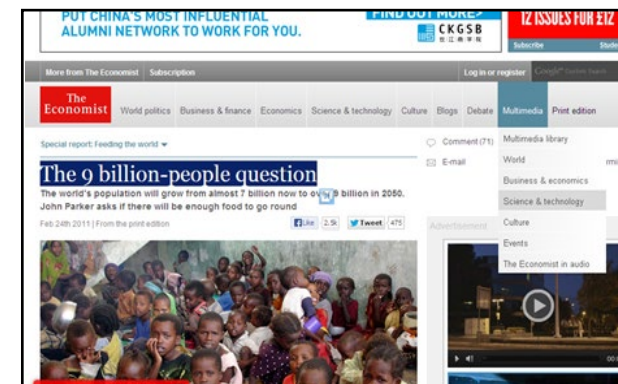
**Format:** Website with a link to a PowerPoint document

<http://www.tes.co.uk/teaching-resource/Uses-of-yeast-and-bacteria-in-food-production-and-6181003/>

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## The 9 billion-people question



A special report highlighting the issues in feeding the world in 2050.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

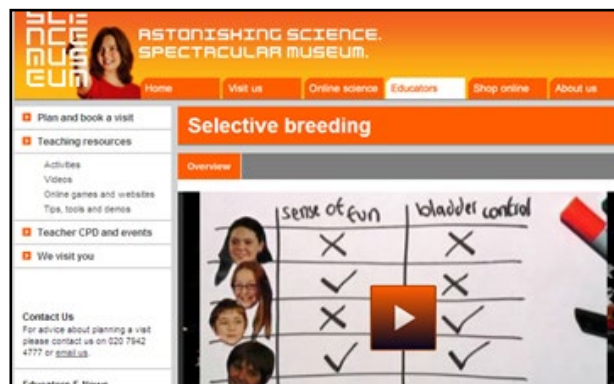
**Format:** Website

<http://www.economist.com/node/18200618>

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## Science Museum – Selective breeding



Video explaining the difference between selective breeding and genetic modification.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

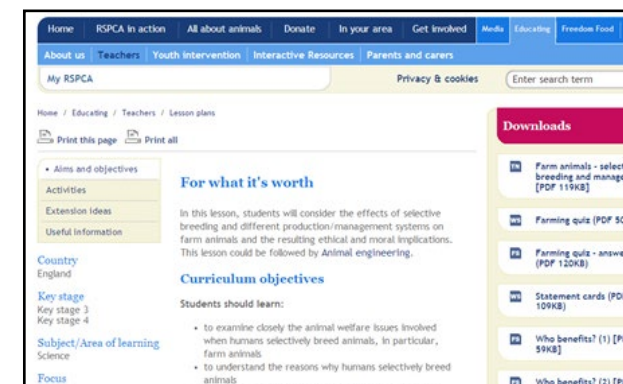
**Format:** Website

[http://www.sciencemuseum.org.uk/educators/teaching\\_resources/videos/  
selective\\_breeding.aspx](http://www.sciencemuseum.org.uk/educators/teaching_resources/videos/selective_breeding.aspx)

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## RSPCA – For what it's worth



A lesson plan based on the effects of selective breeding and different production/management systems on farm animals.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website

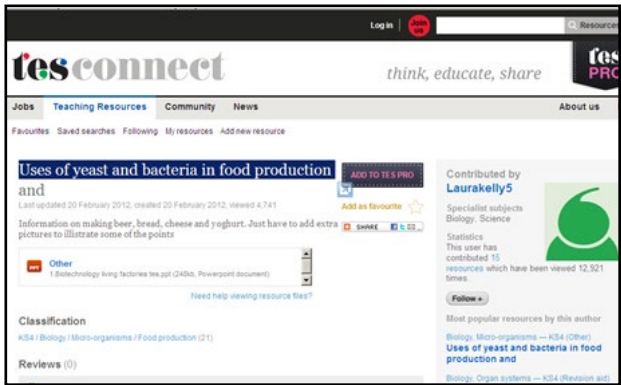
[http://www.rspca.org.uk/education/teachers/lessonplandetails/-/education/  
SelectiveBreedingAndGeneticEngineeringForWhatItsWorth/section/aimsObjectives](http://www.rspca.org.uk/education/teachers/lessonplandetails/-/education/SelectiveBreedingAndGeneticEngineeringForWhatItsWorth/section/aimsObjectives)

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# Use of yeast and bacteria in food production



Information on making beer, bread, cheese and yoghurt.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

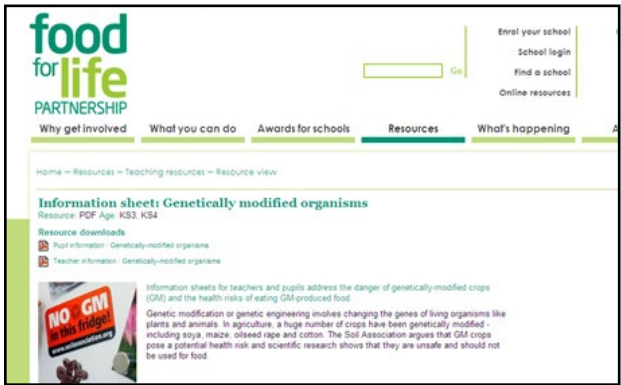
**Format:** Website

<http://www.tes.co.uk/teaching-resource/Uses-of-yeast-and-bacteria-in-food-production-and-6181003/>

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# Food for life partnership – Information sheet: Genetically modified organisms



Website providing an information sheet, for learners and tutors, on genetically modified organisms.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website

<http://www.foodforlife.org.uk/Resources/Teachingresources/Resourceview/tabid/79/ArticleId/273/Information-sheet-Genetically-modified-organisms.aspx>

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## Genetically modified foods: from the lab to the dinner table



Lesson plan - Background, activities and critical analysis.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website

<http://www.pbs.org/newshour/extra/teachers/lessonplans/science/gmofoods.html>

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## Risks of GE Food



Video describing some of the potential risks of GE food.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the role of innovative science in addressing food production'

**Cost:** Free

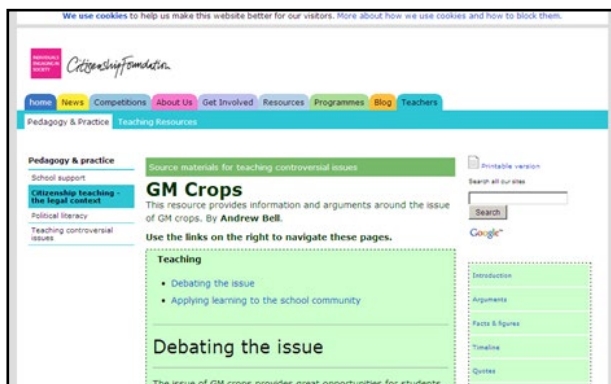
**Format:** Website

<http://www.greenpeace.org/international/en/campaigns/agriculture/problem/genetic-engineering/food/>

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## GM Crops



Resource providing information and arguments around the issue of GM crops.

**Supports:** OCR Level 2 Cambridge Technical Certificate/Extended Certificate/  
Diploma in Science - Unit 7 'Food Production' - LO4 'Understand the  
role of innovative science in addressing food production'

**Cost:** Free

**Format:** Website

<http://www.citizenshipfoundation.org.uk/main/page.php?207>

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## Resources Index

*click on a resource to go to the appropriate page.*

### LO1 - Understand the different practices used in commercial farming

- Hydroponics
- Is farming ruining our landscape?
- Hydroponic farmer produces year-round harvest
- Jimmy Doherty - why choose Red Tractor pork? Give a fork about your pork
- What intensive farming means - for the animals and for the environment (BBC Countryfile)
- Organic vegetable farming with Shillingford Organics
- You are what you eat - organic vs intensive farming methods
- Soil Association farm trails
- Intensive vs organic farming debate

### LO2 - Understand the key factors that affect crop production

- How commercial growers increase crop yield
- Algal Balls – photosynthesis using algae wrapped in jelly balls
- Compassion in world farming
- Food, farming and fertiliser
- Photosynthesis – A Survival Guide for Teachers
- Investigating factors affecting the rate of photosynthesis
- Investigating fertilisers: the effects of minerals on plant growth
- Green pesticide
- Irrigation ideas
- Drip irrigation
- How to build your own drip irrigation kit



## Resources Index

*click on a resource to go to the appropriate page.*

- Growing plants in different soils
- Floating garden challenge

### **LO3 - Know how food gets from the field to the supermarket**

- BBC News - scrap food sell-by dates, government urges manufacturers
- Seasonal foods
- Eat seasonably
- Food miles and carbon dioxide
- Intensive farming – minimising energy loss
- Student Project – Ethene: a plant growth substance with the key to ripening . . . in fruits and vegetables
- Chocolate from bean to box

### **LO4 - Understand the role of innovative science in addressing food production**

- GM foods
- Microbial recipes
- An ancient hidden partnershipsuitable
- Large scale microbe production
- The 9 billion-people question
- Science Museum – selective breeding
- RSPCA – For what it's worth
- Uses of yeast and bacteria in food production
- Food for life partnership – information sheet: genetically modified organisms
- Genetically modified foods: from the lab to the dinner table
- Risks of GE food
- GM crops







# SCIENCE

Level 2 and Level 3