



Growing Schools Scheme of Work: Beekeeping EBD

Subject: Learning Outside of the Classroom	Class: KS4	Zone: Beekeeping	Teacher:	Term:	Student Levels: NC Levels 1-4 EBD
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<u>Overall Objectives</u> Through this unit students will be introduced to the skills associated with Beekeeping. Students will develop knowledge and understanding in the following areas: <ul style="list-style-type: none"> • The Structure of the Bee • The Honey Bee Colony • Bee Reproduction • Beeswax/Honey • Beekeeping • Pollination 	<u>Resources</u> <ul style="list-style-type: none"> • Access to computers/internet. • Beekeeping equipment. • Beeswax products/Honey products. • Magnifying glass/microscope. • Bee hives/bees. • Visual aids to support teaching, pictures etc. • British Beekeepers Association membership. (www.britishbee.org.uk) various resources available, some for free. YouTube clips: various links, see individual lesson plans. Look at DVD of Beekeeping (An Introduction of Bees with Paul Metcalf, to purchase). (http://www.paynesbeefarm.co.uk/store/An-Introduction-to-Beekeeping-DVD-Paul-Metcalf-p-16463.html) 	<u>Vocabulary</u> Compare Describe Example Identify Recognize Tell Observe Explain Bee Space Hive Tool	<u>Unit/ Syllabus Reference</u> Junior Beekeeping Qualification [BBKA Assessment]
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wk	Specific Objectives	Activities			Assessment method (✓)
		Access (NC Level 1-2)	Core (NC Level 3)	Extension (NC Level 4 +)	
1	<u>The Structure of the Bee</u> <ul style="list-style-type: none"> Explore the structure of a typical insect Identify different sorts of bees Develop knowledge and understanding of the life cycle of a honey bee 	<ul style="list-style-type: none"> Introduction to living creatures. Watch DVD. Answer questions. 	<ul style="list-style-type: none"> Looking at a bee. Identify different types of bees. Name parts of a bee. 	<ul style="list-style-type: none"> Use a microscope and a container to look at a bee in more detail. Label and identify nine bee parts 	AFL Observation Marking Portfolio of work
2	<u>The Honey Bee Colony</u> <ul style="list-style-type: none"> Explore the nature of a honey bee colony (using hive and/or video footage). Understand how the insides of a beehive work. Understand how a honey bee grows 	<ul style="list-style-type: none"> Look at how a colony functions during the year Watch the DVD about colonies. Describe how a honey bee worker performs tasks during its life Complete worksheet for interesting facts about bees. 	<ul style="list-style-type: none"> Complete worksheet for interesting facts about bees 	<ul style="list-style-type: none"> Provide further detail and discussion in answers/written work. Drawing of bees on a honeycomb 	AFL Observation Marking Portfolio of work



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3	<u>Bee Reproduction</u> <ul style="list-style-type: none"> Examine the process of Bee reproduction. 	<ul style="list-style-type: none"> Watch the DVD on bee reproduction. Take part in discussions about bee reproduction. 	<ul style="list-style-type: none"> Complete worksheet on bee reproduction. 	<ul style="list-style-type: none"> Complete a 'mindmap' on bee reproduction Detailed written work/answers to questions 	AFL Observation Marking Portfolio of work
4	<u>Beeswax/Honey</u> <ul style="list-style-type: none"> Exploring the properties of honey/beeswax. Learn how honey/beeswax is made 	<ul style="list-style-type: none"> Listen to direct teaching session. Carry out comparison activity. Watch DVD on how to make a beeswax candle. 	<ul style="list-style-type: none"> Record results from comparison activity. 	<ul style="list-style-type: none"> Make a product using beeswax. 	AFL Observation Marking Portfolio of work
5	<u>Beekeeping</u> <ul style="list-style-type: none"> Looking at how Beekeepers work safely. Looking at how we keep bees Learn why we need to protect our bees 	<ul style="list-style-type: none"> Demonstration of the equipment used Checking each other's equipment. Am I safe to go? Take a look at the equipment we use in beekeeping ? Watch DVD. Listen to direct teaching session. 	<ul style="list-style-type: none"> Dressing/helping each other to dress in PPE Completion of a checklist Label a suited beekeeper (WS). 	<ul style="list-style-type: none"> Record keeping. Research how bees survive over winter? 	AFL Observation Marking Portfolio of work



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6	<u>Pollination</u> <ul style="list-style-type: none"> Learn why bees are important to pollinate our crops Raise awareness of the balance of nature Develop knowledge of bee diseases 	<ul style="list-style-type: none"> Listen to a direct teaching session on the benefits of bees in our daily lives. Watch DVD on pollination. 	<ul style="list-style-type: none"> Label the plant diagram. 	<ul style="list-style-type: none"> Researching the Varroa mite - main attack on bee colonies. http://video.google.co.uk/videoplay?docid=-7304562435786960616# 	AFL Observation Marking Portfolio of work
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