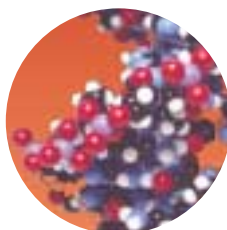


TeachAssist Resource Worksheets

Series 4 of 16



"Organisms in Leaf Litter"



TeachAssist Resources

TeachAssist resources are written with the practical needs of science teachers in mind. Each resource covers a practical activity that is integral to the QCA schemes of work to provide quick and easy preparation for practical classes.

Please feel free to photocopy the sheets to suit your needs.

Each TeachAssist resource contains:

- Student worksheet with practical instructions and activities.
- Technicians' equipment list for a class of 30 students.
- Reference to allow trouble-free ordering of materials and resources.

A summary table links each resource to the National Curriculum programme of study which allows TeachAssist practical activities to be quickly included into lesson plans and schemes of work.

If you require other booklets in the series, please telephone the Griffin Education Sales team or send your request to the following address:-

Griffin Education
Bishop Meadow Road
Loughborough
Leicestershire LE11 5RG

STUDENT WORKSHEET



Important information:

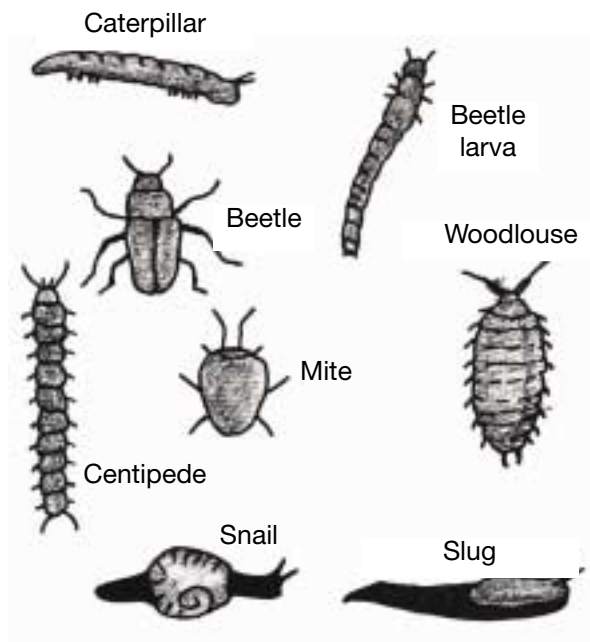
Follow all the safety instructions that your teacher gives you.
Disinfect the pooter's mouth tube before using it.
Tell your teacher if you have asthma or are allergic to dust.
Wash your hands after handling the leaf litter and organisms.

Organisms in leaf litter

“Leaf litter” is a rich environment and many organisms live off the decaying leaves. You will identify some of them.

- Put 2 or 3 large sheets of newspaper onto your bench.
- Put a handful of leaves onto the paper.
- Carefully look through the leaves and capture any of the small organisms that you find.
- Put each type of organism into a separate petri dish.
- Identify the organisms.
- Put your results into a table and draw a graph showing the number of each organism that you found.

Organisms you may find in leaf litter



Pooters can be used to collect small organisms.

Suck in through the tube with the filter.

Suck up organisms using this tube.

Small organisms collect in plastic jar.

Before using the pooter. Sterilise the mouth tube with disinfectant and rinse with water.

TECHNICIAN'S EQUIPMENT LIST

QCA Unit 7C: Environments and feeding relationships

Date:	Room	Time/Period:
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Equipment Class of 30 pupils, working in pairs.	Quantity	Check	Out	Back
Pooters	15			
Disinfectant wipes	30			
Petri dishes	75			
Hand lens	15			
Leaf litter				
Newspaper				

Important information:



- The activity contains procedures that can be hazardous. It should not be performed unless an appropriate risk assessment has been made.
- Refer to your local authority for specific guidance on the use of pooters. In particular, disinfect pooter mouthpieces between use and consider children with allergies that may be aggravated by dust.
- Students may be able to build up food chains based on the leaf litter.
- Students can be asked to think about the sampling method. Larger and more mobile organisms are generally not found by this method.

ORDER REQUISITION

Equipment	Griffin Catalogue No.	Page	Unit cost (£)	No. Required	Cost (£)
Pooters (pack of 5)	YRT-341-C	300	10.60		
Disinfectant wipes (pack of 150)	HYG-231-V	385	7.30		
Plastic petri dishes, 90mm triple vent (pack of 600)	FB51506	396	31.95		
Hand lens (X5, folding)	MAH-261-010H	439	4.90		
Total cost					
VAT					
Order total					

Complete the order form above and place your order with Griffin Education in your usual way. Prices are correct at time of print, please contact the Griffin Sales Office or check on the Griffin Education website for the latest prices.

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By email: griffin@fisher.co.uk
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SUMMARY TABLE

QCA unit	KS3 NC programme	Y7 TeachAssist	Activity	Relevant experience from Key stage 2
7A: Cells	Sc1.2f Sc2.1a	1	How to use a microscope and prepare an onion epidermis slide	Use of hand lenses and basic microscopes. Plants and animals, including internal body organs and plant structures
7C: Environments and feeding relationships	Sc1.2g	2	Using a data logger to monitor environmental conditions	Some use of data loggers How organisms are suited to their environment
	Sc1.1a,c,d Sc1.2h,k,o	3	Wood lice in choice chambers	Asking questions and designing a fair test How organisms are suited to their environment
	Sc2.5b,e	4	Organisms and food chains in leaf litter	How organisms are suited to their environment Food chains as a feeding relationship
7E: Acids and alkalis	Sc3.3d	5	Finding the pH using universal indicator solution	Little or no previous coverage of pH
	Sc1.2g Sc3.3e	6	Using a data logger to monitor changes in pH when an acid is added to an alkali	Some use of data loggers Identification of patterns and trends
	Sc3.3e	7	Investigating the neutralisation of acids with antacid tablets	Use of tables and line graphs to represent data Mixing materials can lead to a change
7F: Simple chemical reactions	Sc3.3a	8	Reactions of metals with acids	Describing how materials change when mixed or heated and how irreversible changes produce new materials
7H: Solutions	Sc1.2a Sc3.1h	9	Purifying salt from rock salt	Use of dissolving, filtering and evaporation to separate mixtures
	Sc3.1h	10	Simple distillation	Knowledge of evaporation as a separation technique
	Sc3.1h	11	Paper chromatography of ink	Separation of colours in food colourings such as sugar-coated sweets
7I: Energy resources	Sc1.2f	12	Using the Bunsen burner	Possible use of methylated spirit burners or candle-burners
	Sc4.1c Sc4.5a,e	13	Demonstrating solar energy: solar cells and absorption of heat energy by different surfaces	Little or no previous coverage of energy
	Sc4.5a	14	Finding the energy content of foods	Little or no previous coverage of energy
7J: Electrical circuits	Sc4.1a	15	Current in series and parallel circuits	Construction of series circuits from circuit diagrams
7K: Forces and their effects	Sc1.2f,g,j,k Sc4.2b	16	Extension of springs and elastic bands	Push and pull in springs Testing elastic band catapults. Some may have extended bands with masses Measurement of forces and weight