



Staff Name:
Zone: Beekeeping
Ability Range: NC Level 1-4
Target Group: EBD

Date:
Class:
Lesson Reference:
 Week 3 'Bee Reproduction'

Learning Objectives:

- To examine the process of bee reproduction and the metamorphosis from egg to adult.

Learning Outcomes:

- To be able to identify the different stages of bee growth.

Challenge: More detail to answers through written work and written exercises.

Differentiation: Support from teaching assistant, visual aids, access to the internet.

AFL: Refer to scheme of work

Development of Skills/Cross Curricular Links:

LITERACY/COMMUNICATION

Reinforcement of key words, development of discussions through describing tasks and group activities.

ENTERPRISE

Communication, team work, using initiative.

PSHE

Development of environmental awareness.

STARTER ACTIVITY/INTRODUCTION

Explain to the students that they are going to be looking at the reproduction process and metamorphosis of a developing bee.

MAIN PART OF LESSON

Explain the process of honey bee reproduction using the Youtube link.

<http://www.youtube.com/watch?v=MKgfpv00Q0k>

<http://library.thinkquest.org/5382/lifecycle.html> - life cycle of a bee.

Ask the students how this compares with other creatures, including humans. Explain the metamorphosis period and how the different members of the colony change at different rates and how this occurs.

Students complete the worksheet on bee reproduction.

PLENARY

Ask the students for their observations of the lesson, what have they learned, do they know of any other creatures which have a similar process of metamorphosis.

Extension Tasks Produce a 'mind map' based around bee reproduction.

Risk Assessment Teacher in charge to ensure all correct and appropriate risk assessments are carried out to ensure the health and safety of all of the students.

Disclaimer

The template used to produce this document, is purely for guidance only and can be adapted to suit individual

VISUAL	DVD.
AUDITORY	Direct teaching. Explanation.
KINAESTHETIC	Completing work sheet activity.
SKILLS	Development of skills and knowledge.
SEN	Ref. to statements. Behaviour/epilepsy plans.
REWARDS	Links to school reward system.

Name of Student: _____

Bee Reproduction: Lesson Three

Use the table below to put the following statements in the correct order to show how a bee develops.

- Adult bee leaves cell.
- Larva reaches full growth.
- Queen lays egg in cell wax.
- Queen mates with several male bees.
- Workers seal cell with wax.
- Worker bees feed hatched larva.
- Larva spins cocoon and changes into a pupa.

Step Number	Explanation
1	
2	
3	
4	
5	
6	
7	

Answers

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Step Number	Explanation
1	Queen mates with several male bees.
2	Queen lays egg in cell wax.
3	Workers seal cell with wax.
4	Larva reaches full growth.
5	Worker bees feed hatched larva.
6	Larva spins cocoon and changes into a pupa.

7	Adult bee leaves cell.
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