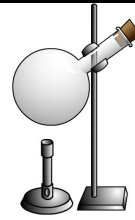




**Sample Lesson Plan**  
**The Big Bus Module: Science Quiz**



**Science Quiz**

**Title**

Using *The Big Bus Science Quiz* to stimulate the recall of scientific facts.

**Introduction**

A fast, interactive quiz for 7 to 11 year olds. Playing against the clock in a multiple-choice format, a breakdown at the end of the quiz provides feedback on how the children performed. Combining competition with the motivation of using the computer, repeated attempts at the quiz will also help to widen the children's scientific knowledge base.

**In this lesson**

The children are shown how the quiz interface operates, then encouraged to make multiple attempts at the quiz, aiming for increasingly higher scores.

**Age Range:** 7 – 11 years

**Lesson Plan**

**Learning objectives**

Having completed this module most children will have developed their ability to:

- Recall scientific facts quickly and accurately
- Use the computer mouse with speed and accuracy.

**Technical preparation**

Install the CD-ROM on to the computer. If you are presented with a choice of Worlds to visit select Bo Bear's World, Adventurers' World or Explorers' World as appropriate.

If you are in Adventurers' World or Explorers' World, open the Information Booklet index and scroll through the available modules to find the module. Select **Science Quiz**.

**Previous experience**

The program draws on a wide range of scientific information. A sound general knowledge of science will help the children enjoy success with this module.

**Introducing the module**

Gather the children around a large computer monitor or interactive whiteboard.

Explain that they are going to be taking part in an interactive quiz to test their knowledge of science. Each time they play the quiz, they will be presented with different questions, drawn from a pool of 250.

Direct the children's attention to the computer monitor or white board then select **start the module**. The screen will show the front page explaining how to play the quiz.

By logging on with their name, the children can become part of a competition to find the four highest scores in their group. Point out that the quiz is timed, and they lose points for wasted time, and for incorrect answers.

Go through the log in procedure, and then press **Start**. The quiz starts immediately with the first question being presented. The children must choose one of four possible answers by clicking on their chosen box. Point out the timer counting down in the corner. Sixteen questions are presented that must be answered as quickly and accurately as possible. Having started with 1000 points, the aim is to achieve a final score as close to this as possible. Run through one complete quiz, and then take the opportunity to discuss the questions that are shown again on the score page, along with a break down of the performance. Return to the Front page to show the children how previous scores are now displayed in rank order.

After the initial demonstration, and if more than one computer is available, the children could now break into working groups of up to four, and undertake the module for themselves. Remind them that they will achieve the highest scores if they answer both quickly and accurately.

Allow the children about 20 minutes to complete the module, and then gather them back together to discuss how they got on.

Which member of each group was leading by the end of the competition?  
What was the highest score in the class?  
Does this type of module help them learn new facts? Are they surprised about how much they already know?

#### **Classroom management**

A single classroom computer running *The Big Bus*, using a large monitor or interactive whiteboard, is an effective whole class teaching resource. Introduce the module to the whole class before pupils break into their groups.

If you have access to a computer suite this module can be completed as a whole class lesson. If you have access to only one or two computers, pupils will need to complete the module on a rotational basis.

#### **Duration**

Each group of children will require approximately 20 minutes of computer time. The teacher introduction and follow-up time will take approximately 15 minutes and 5 minutes respectively.

#### **Differentiation**

- Careful group selection will keep competition open within each group.

#### **Extending the module**

- Challenge the children to create their own sets of multiple choice questions based on a scientific area they are currently studying.

#### **Curriculum Information**

##### **The National Curriculum in England for Science (KS2)**

The module supports all areas of Science.

##### **The Scotland 5-14 Guidelines for Environmental Studies**

The module supports all areas of Science.

##### **The Northern Ireland Curriculum for Science and Technology (KS2)**

The module supports all areas of Science and Technology.

##### **The National Curriculum in Wales for Science (KS2)**

The module supports all areas of Science.

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