

## ICT Cover Lesson /Year 7/7.4 CVR1

### Teacher Instructions

#### Students will need:

A copy of 7.4CVR1 pupil worksheet

A copy of the file **Charity Concert** (Pupils can find this in **Year 7 >> ICT Cover Work**)

- **Students will need ICT access for this lesson**
  - **Students will not need to use the internet**
1. Please issue the sheet and explain the written task
  2. For task one, students merely write on the lines to show whether the examples on their worksheet are Variables, Data or Rules  
**A6=label B13=variable A21=label B6=Variable B19=Rule**
  3. Some students may struggle to work out the calculations involved for task two. If they can do it in their own terms, without expressing a formula they should do so.  
**Total income is worked out by multiplying Ticket Price by Number of Audience (=B4\*B6)**  
**Concert Profit is worked out by taking Total Costs away from Total Income (=B8-B19)**
  4. For task 3 students will need to load the Charity Concert file. They should complete the questions by the values on this spreadsheet, as explained in the question. **They will only be able to change the cells which are shaded green.** Before they change the values on the sheet, they need to estimate whether the change will increase or decrease profit. They should then see what happens and note the answer.
  5. Task 4 – the students should be thinking along the lines that using a spreadsheet model allows to test things before we do them in real life. It allows users to ask “What If?” questions, which could prevent costly mistakes being made. If the concert is unlikely to make a profit, we need to know BEFORE we put it on!
  6. Students may not get as far as Tasks 5 and 6 and you could ask them to do ONE of these if time is short. For task 5 students just need to list likely variables, labels and rules for possible spreadsheet models. They should do this in Word.
  7. For task 6 the students should write a letter that refers to what they found out in task 3. They will need to experiment with the values on the model. This is a challenging task.
  8. Please ask students to print out their work

#### SEN:

Students with learning difficulties should focus on understanding the purpose of a model and what happens when they make changes to it. With some help they should try and tackle tasks 1-4. They could usefully spend time experimenting with changing the values to try and increase the profit. Tasks 5&6 will probably be too challenging for the less able.

#### At the end of the lesson:

Please return all work to the ICT Department Office.