

## Module 13: Using ICT to promote creativity and inquiry in science

### Task 3: Practical activities

#### Activity 1: Exploring the classroom climate using EasySense datalogger.

##### Instructions

- Select 'Meter' on the datalogger (Use up and down arrows).
- Click on forward arrow.
- Investigate the **light** (lx) in different parts of the room.
- Make a list of questions that could be answered by your data.
- What questions do you have about temperature levels in the classroom? Make a list. (Please note that the temperature sensor is much slower than the light sensor to respond).
- Carry out some investigations to answer your questions.

##### If you have the Vu+ model:

- Click 'stop' twice to return to the main menu.
- Select Pictogram using the up and down arrows.
- Explore the different ways of displaying data.
- Discuss the strengths and weaknesses of each display for different aged children.

##### If you have the Q5 model:

- Use the USB lead to connect to the laptop.
- Select Data Harvest: EasySense software from the list of programmes.
- Click on 'Meter'.
- Click on each of the orange icons in turn so you have 4 ways of displaying data (gauge, dial, changes and numeric)
- Right click inside each display in turn and select the sensor of your choice.
- Explore the different ways of displaying data.
- Discuss the strengths and weaknesses of each display for different aged children.

## **Activity 2: Exploring sounds in the local surroundings using the Logit Datalogger**

Start the datalogger and note the sound level (dB) in the classroom. Investigate the sound levels in different parts of the building and in the close vicinity.

What is the noisiest area?

What is the loudest sound recorded?

What other questions could you answer with your data?

## **Activity 3: Making observations of everyday objects and living things using a digital microscope or visualiser**

Choose some objects to observe.

Make some drawings of your object / living thing as you see it with the naked eye, then magnified 10x. What similarities and differences do you notice when you magnify it? What have you learnt about your object by magnifying it? What did you find most surprising? What else would you like to know about your object?



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