

MEASUREMENT

Desirable Features (Draft)

-if pupils are working in the area of logo / control these are some of the characteristics they may demonstrate...

Level 3: Typically pupils may...
<ul style="list-style-type: none">• Use an electronic device to measure a physical quantity e.g. use a temperature sensor or an electronic balance (Explore)• Display the data collected by an electronic device (Express)• Talk about the advantages of using a digital measuring device (Evaluate)
Level 4: Typically pupils may...
<ul style="list-style-type: none">• Use more than one electronic device to measure a physical quantity e.g. use temperature sensors in an investigation into insulation (Explore)• Write a short report about how electronic measurement and control devices are used in the home (Express)• Present the data collected by electronic devices in another format e.g. display data in a table or produce a suitable graph or chart (Exchange)
Level 5: Typically pupils may...
<ul style="list-style-type: none">• In an investigation choose and use electronic devices to measure physical quantities (Explore)• Integrate the data from an electronic measuring device into a report. Display the data in a suitable format. (Express)• Write a short report about how you could use an electronic measuring device to improve the school dining room (Express)
Level 6: Typically pupils may...
<ul style="list-style-type: none">• In an investigation choose and use suitable electronic measuring device(s), select appropriate time period for collecting data (Explore)• Write a report on how IT devices can monitor and control devices and systems e.g. using an IT control system in a greenhouse or using IT in traffic control systems (Express)• Transfer data collected to another application e.g. spreadsheet. Use a number of appropriate ways to display data in a meaningful way e.g. different charts, tables, summary data (Exchange)
Level 7: Typically pupils may...
<ul style="list-style-type: none">• In response to a complex problem select appropriate electronic devices to measure physical data (Explore)• Write a report integrating data collected by electronic measuring device(s) with other appropriate data e.g. charts, graphs, diagrams, digital photographs, internet etc. (Express)• Write about real life use of IT control system; describe how feedback is used to maintain control systems (Evaluate)