

Year 7 teaching objectives

NOTE: Objectives highlighted in a tint are related to reviewing, modifying and evaluating work as it progresses.

Finding things out	Developing ideas and making things happen	Exchanging and sharing information
<p>Using data and information sources</p> <ul style="list-style-type: none"> Understand that different forms of information – text, graphics, sound, numeric data and symbols – can be combined to create meaning and impact. Identify the purpose of an information source (e.g. to present facts or opinions, to advertise, publicise or entertain) and whether it is likely to be biased. Identify what information is relevant to a task. Understand how someone using an information source could be misled by missing or inaccurate information. <p>Searching and selecting</p> <ul style="list-style-type: none"> Search a variety of sources for information relevant to a task (e.g. using indexes, search techniques, navigational structures and search engines). Narrow down a search to achieve more relevant results. Assess the value of information from various sources to a particular task. Acknowledge sources of information used. <p>Organising and investigating</p> <ul style="list-style-type: none"> In an investigation: <ul style="list-style-type: none"> design and use an appropriate data handling structure to answer questions and draw conclusions; design a questionnaire or data collection sheet to provide relevant data; check data efficiently for errors; investigate relationships between variables; use software to represent data in simple graphs, charts or tables, justifying the choice of representation; derive new information from data, e.g. averages, probabilities; check whether conclusions are plausible; review and amend the structure and its data to answer further questions. 	<p>Analysing and automating processes</p> <ul style="list-style-type: none"> Use automated processes to increase efficiency (e.g. templates, master pages). Represent simple processes as diagrams, showing: <ul style="list-style-type: none"> how a task can be broken down into smaller ones; the sequence of operations, and any conditions or decisions that affect it; the initial information needed (e.g. room temperature, prices of items). <p>Models and modelling</p> <ul style="list-style-type: none"> Use software to investigate and amend a simple model by: <ul style="list-style-type: none"> formatting and labelling data appropriately (e.g. formatting cells to display currency); entering rules or formulae and checking their appropriateness and accurate working; explaining the rules governing a model; predicting the effects of changing variables or rules. Test whether a simple model operates satisfactorily. <p>Control and monitoring</p> <ul style="list-style-type: none"> Implement a system to carry out simple control tasks, including some that involve sensed physical data, by: <ul style="list-style-type: none"> compiling sets of instructions, identifying those that can be grouped to form procedures or loops; testing and refining the instructions. 	<p>Fitness for purpose</p> <ul style="list-style-type: none"> Recognise common forms and conventions used in communications and how these address audience needs (e.g. columns of text in newspapers, graphics and enlarged print in posters, hyperlinks on websites). Apply understanding of common forms and conventions to own ICT work. Use given criteria to evaluate the effectiveness of own and others' publications and presentations. <p>Refining and presenting information</p> <ul style="list-style-type: none"> Plan and design the presentation of information in digital media, taking account of the purpose of the presentation and intended audience. Use ICT to draft and refine a presentation, including: <ul style="list-style-type: none"> capturing still and moving images and sound (e.g. using a scanner, digital camera, microphone); re-organising, developing and combining information, including text, images and sound, using the simple editing functions of common applications; importing and exporting data and information in appropriate formats. <p>Communicating</p> <ul style="list-style-type: none"> Use e-mail securely and efficiently for short messages and supporting material. Know how to protect personal details and why this is important.