

Directory of resources for the New WJEC GCSE Science suite of specifications



Llywodraeth Cymru
Welsh Government

Introduction

The directory has been compiled to identify suitable free resources for supporting both learning and teaching specifically for the new WJEC GCSE Science suite of specifications.

The suite is made up of five specifications, Biology, Chemistry, Physics, Double Award Science and Applied Science. The directory has the following features.

- It is divided into four sections Biology, Chemistry, Physics and Applied Science. The Biology sections are linked both to the Biology specification and the Biology units in the Double Award Science Specification, likewise with the Chemistry and Physics sections. This is because the content and style in both specifications are similar. Where content is different this has been identified. The Double Award Applied Science has a section of its own since this specification is different from the others in the suite in both content and style.
- The sections are highlighted in different colours to help identify them clearly.
 - Biology (green).
 - Chemistry (yellow).
 - Physics (pink).
 - Applied Science (orange).
- Each section contains five columns from left to right the headings are:
 - specification reference and topic
 - resource description and details of specification coverage
 - resource location (hyperlink)
 - notes about using the resource
 - bilingual (whether available in English only (EN) or in Welsh (CY) also).
- Specific topics, in each of the specifications, are linked to a named resource. **At least three** major resources have been identified for each topic in each of the specifications. Often there is more than three depending on the depth and breadth of content in the specification.
- A hyperlink has been added for ease of access to the resource. Double clicking on the hyperlink will open the resource directly. If it does not open automatically copy the hyperlink and paste it into your browser.
- If the resource is available bilingually, the hyperlinks for both the English and Welsh language versions have been provided (see EN for English only and CY for Welsh versions).
- A wide variety of different types of resources have been provided including, lesson plans for both individual lessons and series of lessons; starters and plenaries; complete activities; suggestions and advice for practical work; virtual experiments; images for production of posters and classroom worksheets; background information; animations to illustrate and explain principles; data related to the topic which could be included in an activity, revision activities and quizzes and tests.
- The resources have been drawn from a wide range of providers which include Hwb, WJEC, TES, BBC, learned bodies, National STEM Centre, YouTube, teachers TV, PhET (University of Colorado).