# Biology Learning Journey

Bill Bryson –A Short History of Nearly Everything

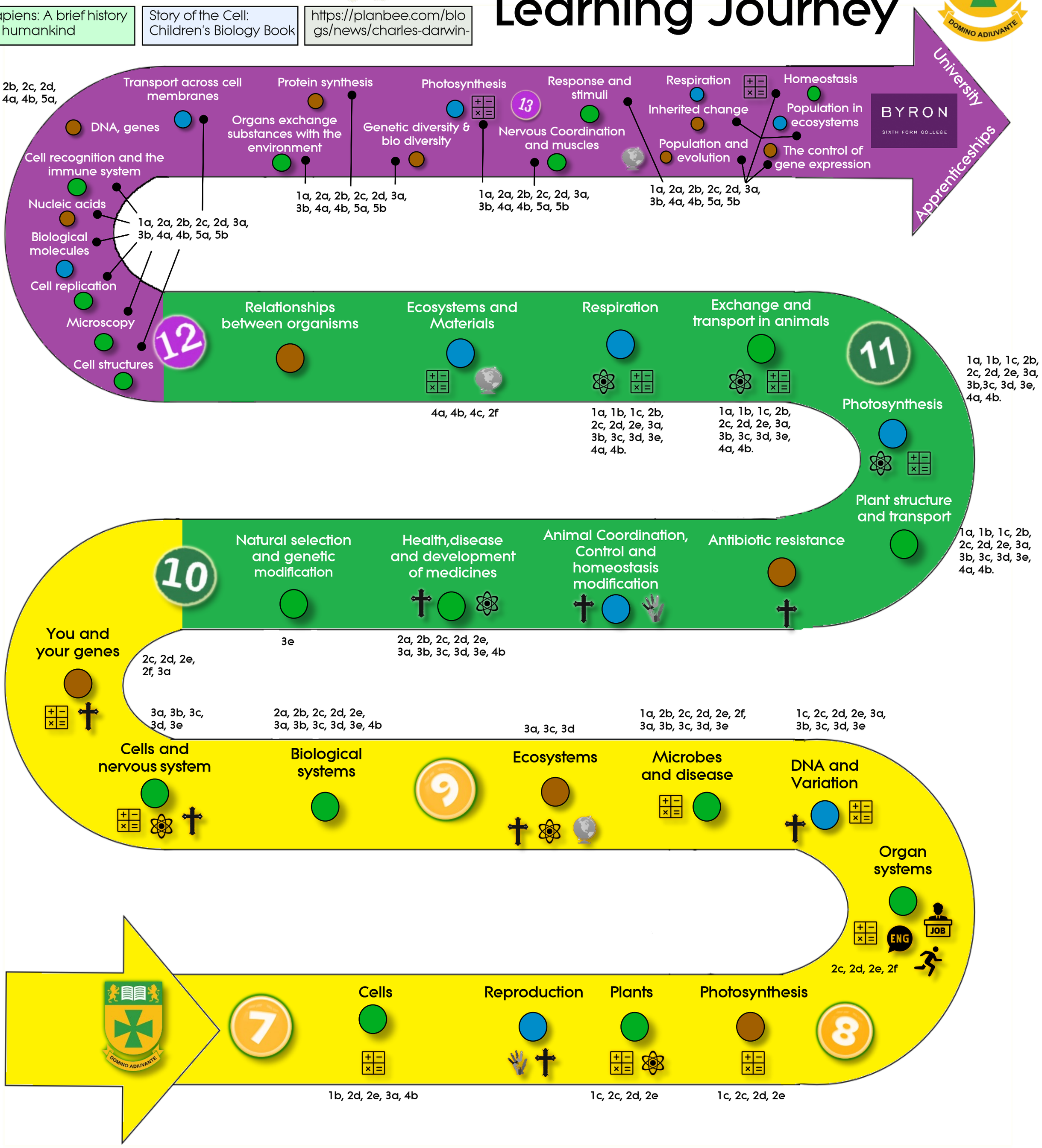
David Attenborough Blue Planet

Predators: The whole tooth and claw story

Sapiens: A brief history of humankind

Story of the Cell: Children's Biology Book

https://planbee.com/blogs/news/charles-darwin-




| Curriculum Links | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENG | English | | Science | | Geography | | DT | MFL | MFL | | PE | | RE |
| | Maths | | History | | ICT | | Music | | Art | JOB | Careers | | PHSE |

| Biological Big Ideas | | | |
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| | Cells and organisation | | Inheritance and evolution |
| | Energy in biological systems | | |

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| | **Scientific attitudes** | **Experimental skills and investigations** | **Analysis and evaluation** | **Measurement** |
| A | pay attention to objectivity and concern for accuracy, precision, repeatability and reproducibility | ask questions and develop a line of enquiry based on observations of the real world, alongside prior knowledge and experience | apply mathematical concepts and calculate results | understand and use SI units and IUPAC (International Union of Pure and Applied Chemistry) chemical nomenclature |
| B | understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review | make predictions using scientific knowledge and understanding | present observations and data using appropriate methods, including tables and graphs | use and derive simple equations and carry out appropriate calculations |
| C | evaluate risks | select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate | interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions | undertake basic data analysis including simple statistical techniques. |
| D | | use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety | present reasoned explanations, including explaining data in relation to predictions and hypotheses | |
| E | | make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements | evaluate data, showing awareness of potential sources of random and systematic error | |
| F | | apply sampling techniques | identify further questions arising from their results | |