

Strong and Weak acids

Rates of Reactions

Equilibria

Organic Chemistry and Analysis

Finish

- Aromatics
- Carbonyls and Carboxylic Acids
- Amines, Amino Acids and Proteins
- Organic Synthesis
- Chromatography and Spectroscopy

Physical Chemistry and Transition Elements

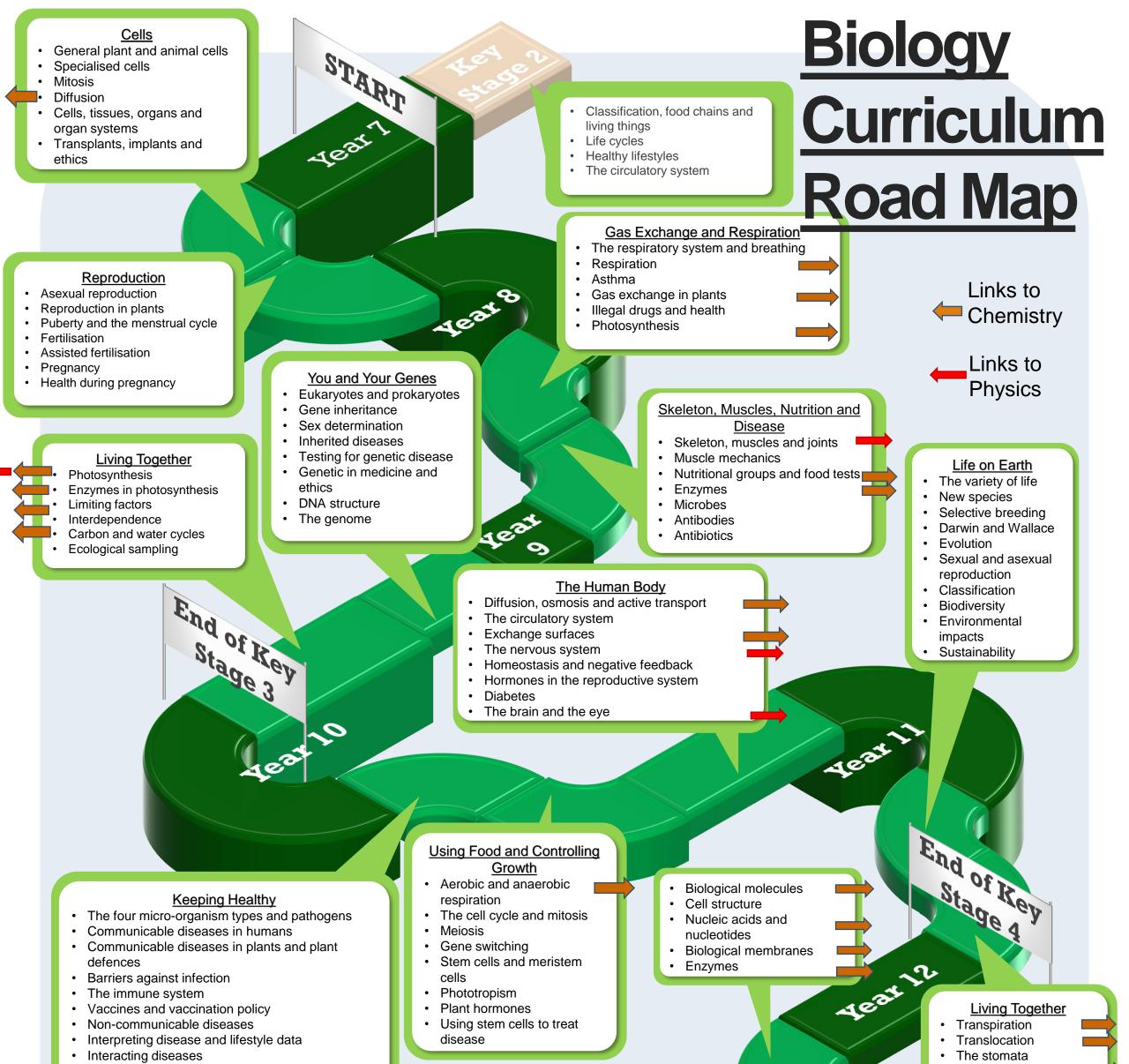
- Rates of Reactions
- Equilibria
- Acids, Bases and pH
- Buffers and Neutralisation
- Enthalpy and Entropy
- Redox and Electrode Potentials
- Transition Elements

Core Organic Chemistry

- Nomenclature
- Isomerism
- Alkanes
- Alkenes
- Alcohols
- Haloalkanes
- Synthesis
- Spectroscopy

Periodic Table and Energy

- Periodicity
- Reactivity Trends
- Enthalpy
- Rates and Equilibria



- Using and developing medicines
- Monoclonal antibodies

- Populations and sustainability
- Homeostasis
- Excretion •
- Photosynthesis ٠
- Respiration
- Nervous communication
- Hormonal communication

Transport in plants

- **Biodiversity** •
- ٠ Classification
- Evolution ٠
- ٠ Ecosystems
- Communication

- Diffusion, osmosis and active transport
- Trophic levels and ecological pyramids
- Micro-organisms and decomposition
- Changing populations
- Cell division, diversity and organization
- Exchange surfaces
- Transport in animals
- Communicable disease

- Cellular control
- Patterns of inheritance

Finish

- Plant responses
- Animal responses
- Manipulating genes
- Cloning and biotechnology

