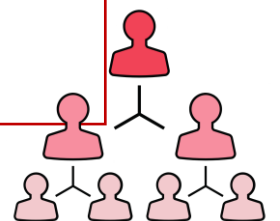




**SUMMER
3:2**

3.7 Genetics, populations, evolution and ecosystems

- 3.7.1 Inheritance
- 3.7.2 Populations
- 3.7.3 Evolution and speciation
- 3.7.4 Populations in ecosystems



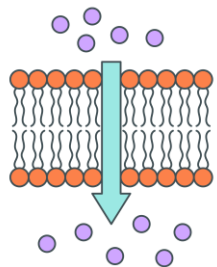
**SUMMER
3:1**

3.3 Exchange and transport III

- 3.3.4.1 Mass Transport in animals
- 3.3.4.2 Mass transport in plants

3.4 Genetic variation III

- 3.4.5 Taxonomy
- 3.4.6 Biodiversity in a community
- 3.4.7 Investigating biodiversity



3.4 Genetic variation II

- 3.4.3 Diversity and meiosis.
- 3.4.4 Diversity and adaptations

3.3 Exchange and transport II

- 3.3.3.3 Digestion and absorption



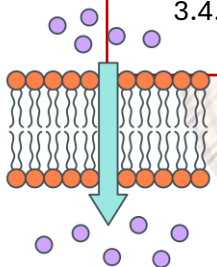
**SPRING
2:2**

3.3 Exchange and transport I

- 3.3.3.1 Surface area to volume ratio
- 3.3.3.2 Gas exchange

3.4 Genetic variation I

- 3.4.1 DNA, genes and chromosomes
- 3.4.2 DNA and protein synthesis



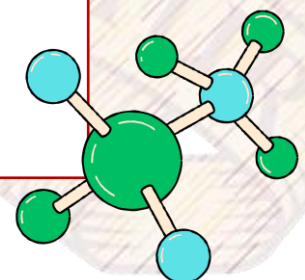
**SPRING
2:1**

3.1 Biological Molecules II

- 3.1.4 Proteins
- 3.1.5 Nucleic acids
- 3.1.6 ATP
- 3.1.7 Water
- 3.1.8 Inorganic ions.

3.2 Cells II

- 3.2.4 Cell division
- 3.2.5 Transport
- 3.2.6 Immune system



**AUTUMN
1:2**

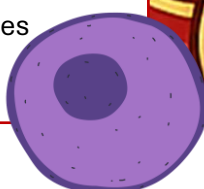
3.1 Biological Molecules I

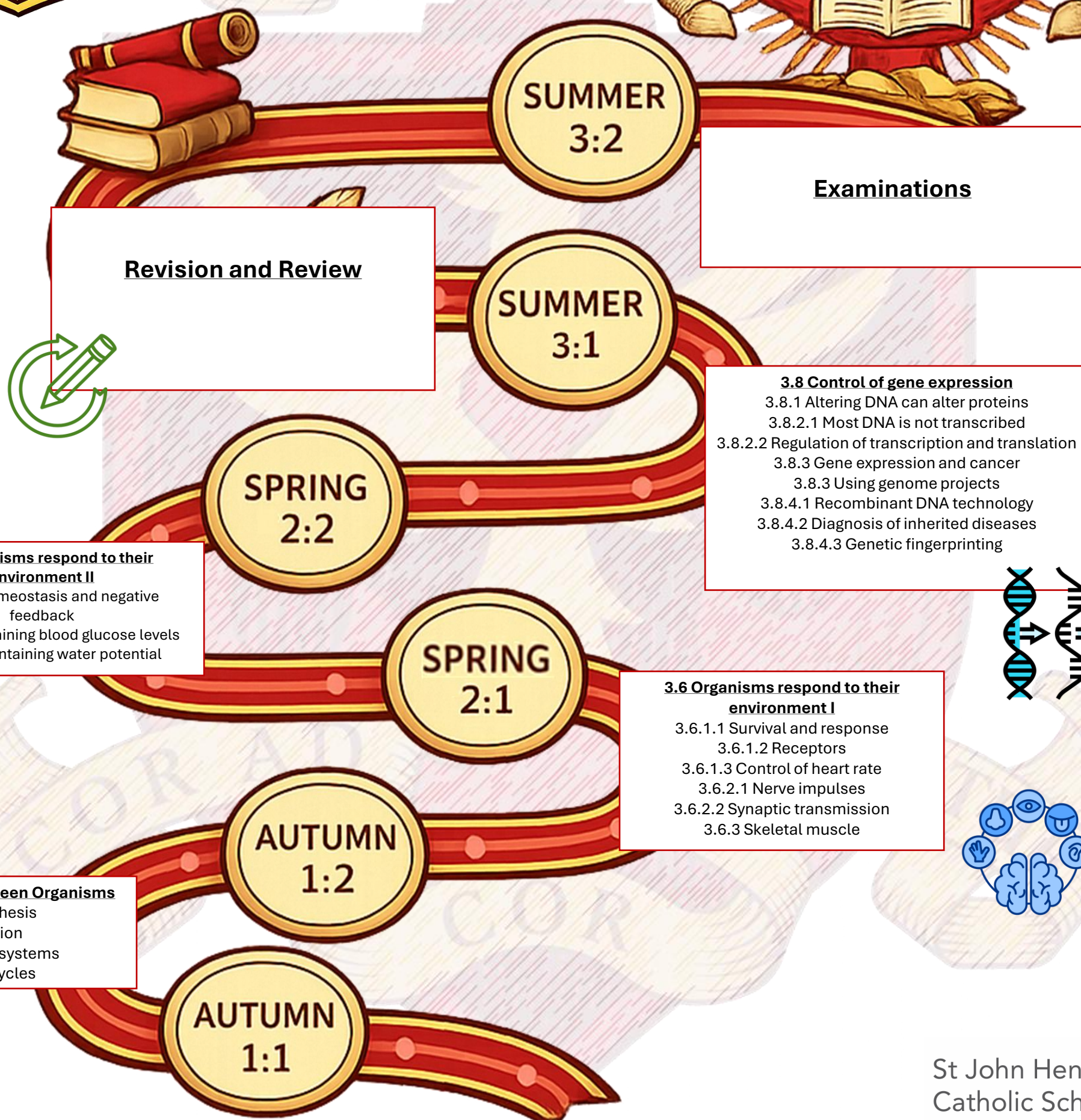
- 3.1.1 Monomers & polymers
- 3.1.2 Carbohydrates
- 3.1.3 Lipids

3.2 Cells I

- 3.2.1 Eukaryotes,
- 3.2.2 prokaryotes & viruses
- 3.2.3 Studying cells

**AUTUMN
1:1**

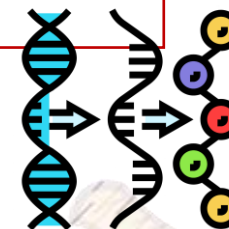




3.6 Organisms respond to their environment II
 3.6.4.1 Homeostasis and negative feedback
 3.6.4.2 Maintaining blood glucose levels
 3.6.4.3 Maintaining water potential



3.8 Control of gene expression
 3.8.1 Altering DNA can alter proteins
 3.8.2.1 Most DNA is not transcribed
 3.8.2.2 Regulation of transcription and translation
 3.8.3 Gene expression and cancer
 3.8.3 Using genome projects
 3.8.4.1 Recombinant DNA technology
 3.8.4.2 Diagnosis of inherited diseases
 3.8.4.3 Genetic fingerprinting



3.6 Organisms respond to their environment I
 3.6.1.1 Survival and response
 3.6.1.2 Receptors
 3.6.1.3 Control of heart rate
 3.6.2.1 Nerve impulses
 3.6.2.2 Synaptic transmission
 3.6.3 Skeletal muscle



3.5 Energy transfers between Organisms
 3.5.1 Photosynthesis
 3.5.2 Respiration
 3.5.3 Energy in ecosystems
 3.5.4 Nutrient cycles

