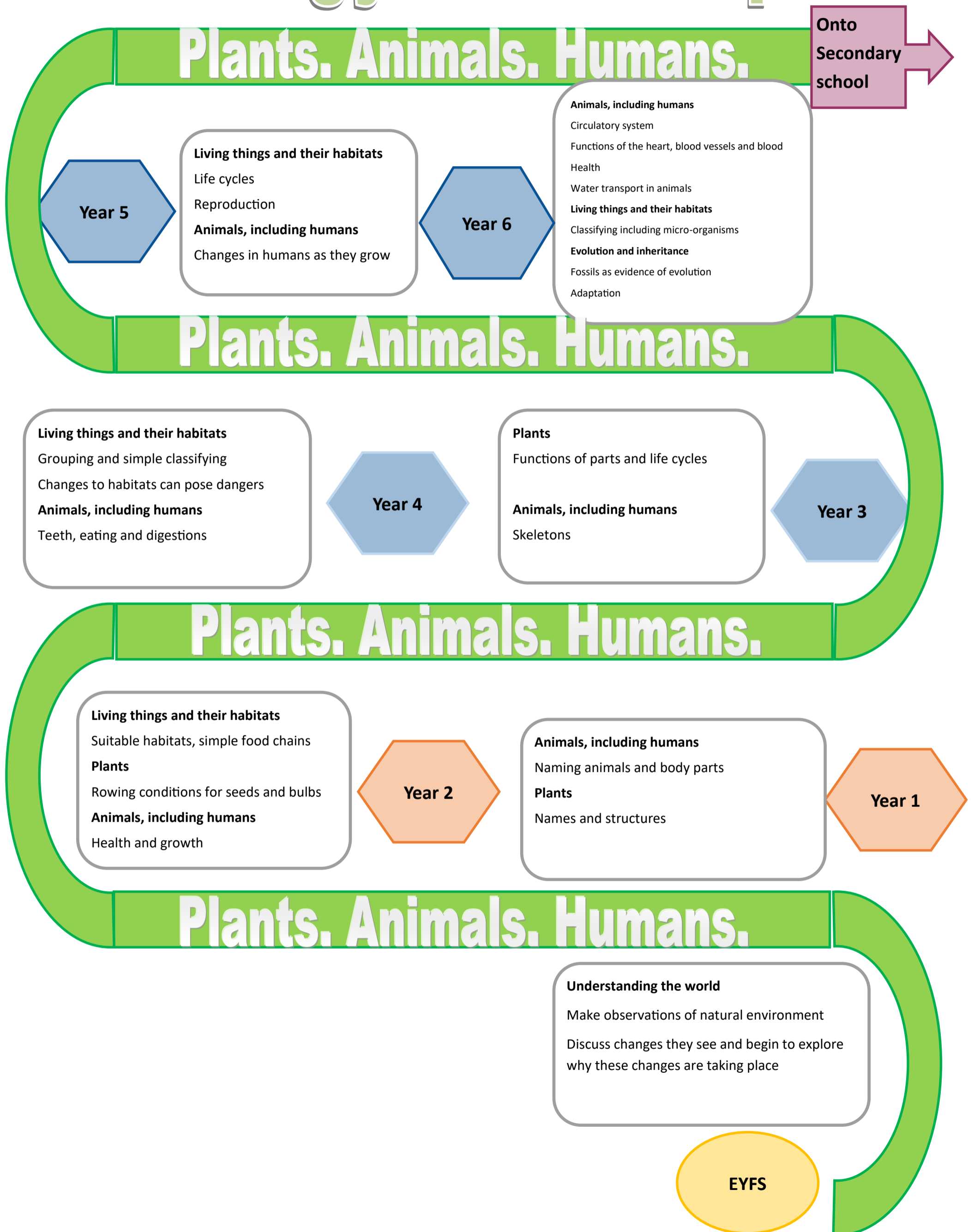


Biology Road Map



Physics Road Map

Earth and Space.

Onto
Secondary
school

Year 5

Forces

Gravity
Friction
Air-resistance
Levers
Pulleys and gears
Earth and Space
Other planets

Year 6

Light

Travels in straight lines
How we see things

Electricity

What affects bulb brightness
Buzzer volume
Voltage
Symbols

Sound. Electricity.

Sound

Fainter sounds further away
Vibrations
Pitch and volume

Electricity

Simple circuit
Switches
Conductors and insulators

Year 4

Light

Dark is the absence of light
Size of shadows

Forces and Magnets

Friction– how things move on different surfaces
Magnets

Year 3

Forces. Magnets. Light.

Year 2

Seasonal Changes

Changes and weather

Year 1

Seasonal Changes

Understanding the world

Observe environment
Discuss changes

EYFS

Chemistry Road Map

Properties. Changes.

Onto
Secondary
school

Year 5

Properties and changes of materials

More properties including thermal and electrical conductivity

Mixing and separating reversible and irreversible

Year 6

States of Matter

States of matter

Solids

Liquids

Gases

Heating and cooling

Water cycle

Year 4

Rocks

Simple properties

Fossils

Soils

Year 3

Rocks

Use of everyday materials

Suitability and changing shapes of materials

Year 2

Everyday Materials

Names and properties of simple materials

Year 1

Materials

Understanding the world

Observe a variety of materials

Explore similarities and differences in materials

EYFS

Working Scientifically Road Map

Onto
Secondary
school

Planning. Experimenting. Recording.

Year 5 & 6

- Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, scatter graphs, bar and line graphs
- Use test results to make predictions to set up further comparative and fair tests
- Report and present findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- Identify scientific evidence that has been used to support or refute ideas/arguments

Planning. Experimenting. Recording.

Year 3 & 4

- Ask relevant questions and use different types of scientific enquiry to answer them
- Set up simple, practical enquiries, comparative and fair tests
- Make systematic and careful observations
- Take accurate measurements using standard units with a range of equipment using a range of equipment such as data loggers and thermometers
- Gather, record, classify and present data in a variety of ways to help answer questions
- Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables
- Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- Identifying differences, similarities or changes related to simple scientific ideas and processes
- Use straightforward scientific evidence to answer questions or support findings

Planning. Experimenting. Recording.

Year 1 & 2

- Ask simple questions, recognising they can be answered in different ways
- Observe closely, using simple equipment
- Perform simple tests
- Identify and classify
- Use their observations and ideas to suggest answers to questions
- Gather and record data to help answer questions

Planning. Experimenting. Recording.

EYFS

- Think of their own ideas
- Make predictions
- Test their ideas
- Develop ideas of grouping sequencing, cause and effect
- Make links and notice patterns