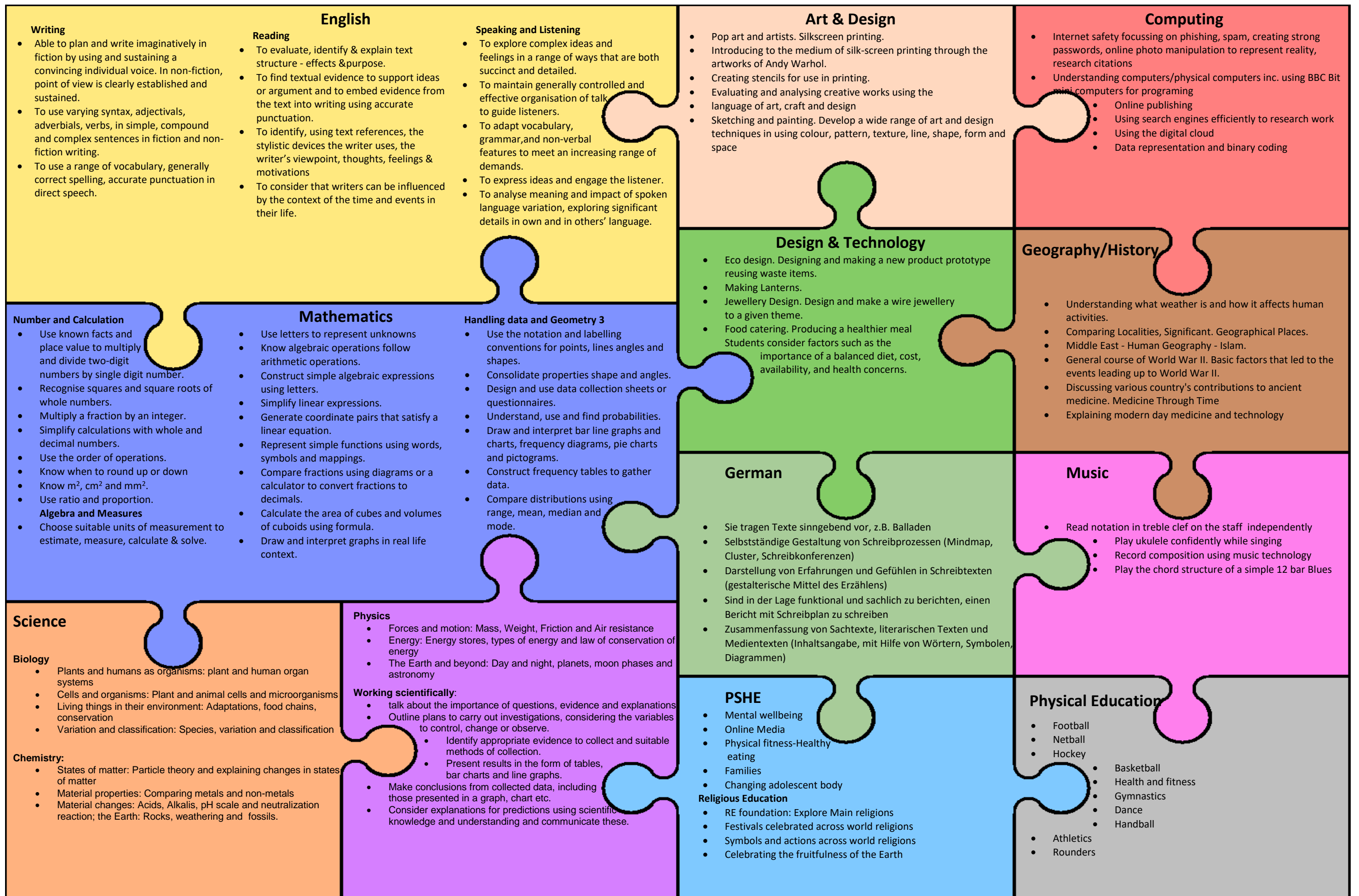


# Curriculum Overview for Year 7



### English

**Writing**

- Able to plan and write imaginatively in fiction by using and sustaining a convincing individual voice. In non-fiction, point of view is clearly established and sustained.
- To use varying syntax, adjectivals, adverbials, verbs, in simple, compound and complex sentences in fiction and non-fiction writing.
- To use a range of vocabulary, generally correct spelling, accurate punctuation in direct speech.

**Reading**

- To evaluate, identify & explain text structure - effects & purpose.
- To find textual evidence to support ideas or argument and to embed evidence from the text into writing using accurate punctuation.
- To identify, using text references, the stylistic devices the writer uses, the writer's viewpoint, thoughts, feelings & motivations
- To consider that writers can be influenced by the context of the time and events in their life.

**Speaking and Listening**

- To explore complex ideas and feelings in a range of ways that are both succinct and detailed.
- To maintain generally controlled and effective organisation of talk to guide listeners.
- To adapt vocabulary, grammar, and non-verbal features to meet an increasing range of demands.
- To express ideas and engage the listener.
- To analyse meaning and impact of spoken language variation, exploring significant details in own and in others' language.

### Art & Design

- Pop art and artists. Silkscreen printing.
- Introducing to the medium of silk-screen printing through the artworks of Andy Warhol.
- Creating stencils for use in printing.
- Evaluating and analysing creative works using the language of art, craft and design
- Sketching and painting. Develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space

### Computing

- Internet safety focussing on phishing, spam, creating strong passwords, online photo manipulation to represent reality, research citations
- Understanding computers/physical computers inc. using BBC Bitz mini computers for programing
  - Online publishing
  - Using search engines efficiently to research work
  - Using the digital cloud
  - Data representation and binary coding

### Mathematics

**Number and Calculation**

- Use known facts and place value to multiply and divide two-digit numbers by single digit number.
- Recognise squares and square roots of whole numbers.
- Multiply a fraction by an integer.
- Simplify calculations with whole and decimal numbers.
- Use the order of operations.
- Know when to round up or down
- Know m<sup>2</sup>, cm<sup>2</sup> and mm<sup>2</sup>.
- Use ratio and proportion.

**Algebra and Measures**

- Choose suitable units of measurement to estimate, measure, calculate & solve.

**Use letters to represent unknowns**

- Know algebraic operations follow arithmetic operations.
- Construct simple algebraic expressions using letters.
- Simplify linear expressions.
- Generate coordinate pairs that satisfy a linear equation.
- Represent simple functions using words, symbols and mappings.
- Compare fractions using diagrams or a calculator to convert fractions to decimals.
- Calculate the area of cubes and volumes of cuboids using formula.
- Draw and interpret graphs in real life context.

**Handling data and Geometry 3**

- Use the notation and labelling conventions for points, lines angles and shapes.
- Consolidate properties shape and angles.
- Design and use data collection sheets or questionnaires.
- Understand, use and find probabilities.
- Draw and interpret bar line graphs and charts, frequency diagrams, pie charts and pictograms.
- Construct frequency tables to gather data.
- Compare distributions using range, mean, median and mode.

### Design & Technology

- Eco design. Designing and making a new product prototype reusing waste items.
- Making Lanterns.
- Jewellery Design. Design and make a wire jewellery to a given theme.
- Food catering. Producing a healthier meal Students consider factors such as the importance of a balanced diet, cost, availability, and health concerns.

### Geography/History

- Understanding what weather is and how it affects human activities.
- Comparing Localities, Significant. Geographical Places.
- Middle East - Human Geography - Islam.
- General course of World War II. Basic factors that led to the events leading up to World War II.
- Discussing various country's contributions to ancient medicine. Medicine Through Time
- Explaining modern day medicine and technology

### Science

**Biology**

- Plants and humans as organisms: plant and human organ systems
- Cells and organisms: Plant and animal cells and microorganisms
- Living things in their environment: Adaptations, food chains, conservation
- Variation and classification: Species, variation and classification

**Chemistry:**

- States of matter: Particle theory and explaining changes in states of matter
- Material properties: Comparing metals and non-metals
- Material changes: Acids, Alkalis, pH scale and neutralization reaction; the Earth: Rocks, weathering and fossils.

### Physics

- Forces and motion: Mass, Weight, Friction and Air resistance
- Energy: Energy stores, types of energy and law of conservation of energy
- The Earth and beyond: Day and night, planets, moon phases and astronomy

**Working scientifically:**

- talk about the importance of questions, evidence and explanations
- Outline plans to carry out investigations, considering the variables to control, change or observe.
- Identify appropriate evidence to collect and suitable methods of collection.
- Present results in the form of tables, bar charts and line graphs.
- Make conclusions from collected data, including those presented in a graph, chart etc.
- Consider explanations for predictions using scientific knowledge and understanding and communicate these.

### German

- Sie tragen Texte sinngebend vor, z.B. Balladen
- Selbstständige Gestaltung von Schreibprozessen (Mindmap, Cluster, Schreibkonferenzen)
- Darstellung von Erfahrungen und Gefühlen in Schreibtexten (gestalterische Mittel des Erzählens)
- Sind in der Lage funktional und sachlich zu berichten, einen Bericht mit Schreibplan zu schreiben
- Zusammenfassung von Sachtexte, literarischen Texten und Medientexten (Inhaltsangabe, mit Hilfe von Wörtern, Symbolen, Diagrammen)

### Music

- Read notation in treble clef on the staff independently
  - Play ukulele confidently while singing
  - Record composition using music technology
  - Play the chord structure of a simple 12 bar Blues

### PSHE

- Mental wellbeing
- Online Media
- Physical fitness-Healthy eating
- Families
- Changing adolescent body

**Religious Education**

- RE foundation: Explore Main religions
- Festivals celebrated across world religions
- Symbols and actions across world religions
- Celebrating the fruitfulness of the Earth

### Physical Education

- Football
- Netball
- Hockey
- Basketball
- Health and fitness
- Gymnastics
- Dance
- Handball
- Athletics
- Rounders

