Curriculum Overview for Year 5 Autumn 2017 Ice Worlds (Courage and Good Judgement- Empathy and Respect)

Reading

Read and discuss a broad range of genres and texts

Identify and discuss themes
Make recommendations to others
Draw inference and make
predictions

Discuss author's use of language Retrieve and present information from non- fiction texts Drama

To develop skills of characterisation
To develop improvisation skills

English

Writing

Plan writing to suit audience and purpose
Develop character, setting and atmosphere in narrative

Use organisational and presentational features Proof read

Spelling
Proof read

Proof read and assess own work

Set own targets
Legible fluent handwriting

Grammar

Develop use of commas, verbs, clauses and advanced punctuation

Speaking and Listening

Give well structured explanations Command of Standard English Consider and evaluate different viewpoints

Art & Design

Using sketch books to collect, record, review, revisit and evaluate ideas

Improve techniques such as drawing, painting and sculpture with varied materials Learn about great artists, architects and designers

Explore themes relating to Ice Worlds

Computing

Robots, understanding cause and effect Algorithms and controlling motors



Debugging

Using a sensor with an algorithm Solve a problem

Design & Technology

Use research and criteria to develop products which are fit for purpose and aimed at specific groups
Use annotated sketches, cross-section diagrams and computer aided design

Analyse and evaluate existing products and improve own work

Use mechanical and electrical systems in own products

PHSE

To understand how everyone is different
To identify different influences on health and well
being

How to manage risks to maintain physical, mental and emotional health and wellbeing

Number/ Calculation

Negative numbers-

Arctic- in context comparison between temperatures with Reigate Secure place value to 1,000,000 Use Roman numerals to 100(M) Use standard written methods for all four operations

Confidently add and subtract mentally

Use vocabulary of prime, factor and multiple

Multiply and divide by powers of ten
Use square and cube numbers

Mathematics

Geometry and Measures

Convert between different units

Calculate perimeter of composite shapes and areas of rectangles

Estimate volume and capacity Identify 3d shapes Measure and identify angles

Understand regular polygons Reflect and translate shape

<u>Data</u>

Interpret tables and line graphs Solve questions about graphs

Fractions

Compare and order fractions
Add and subtract fractions with
common denominators and mixed
numbers

Write decimals as fractions
Order and round decimal numbers
Link percentages to decimal and
fractions

Modern

Languages

Engage in conversations, expressing opinions

Speak in simple language & be understood

Develop appropriate pronunciation

Present ideas and information orally

Show understanding in simple reading

Adapt known language to create new ideas

Describe people, places and things

Understand basic grammar e.g. gender

Music

Ethnic Music

Listen to identify, sing and play music from around the world

Identify some of the instruments used in

Ethnic music

Further develop aural and notation skills

Play, sing and rehearse increasingly challenging music and songs towards a concert

Science

Chemistry- Classify materials according to properties Understanding mixtures and solutions Know about reversible changes: identify irreversible

Borax snowflakes and separating materials
Investigating insulators- Baked Alaska

Combined Humanities (Ice Worlds)

Understand latitude and longitude, equator, time zones, tropics and polar circles

Understand land use

Explore global warming/ climate change Planning a polar expedition

Physical

Education

Play competitive games- Hockey, Netball, Rugby and Football extending tactical skills appropriately

Develop control in gym and Swimming Modern dance

P4C

Formulating open questions

Using the four C's – caring, critical,

collaborative and creative thinking skills in debate

To build on the opinions of others
To discuss subjects a variety of subjects

Chronology

To research famous Polar explorers
Investigating primary and secondary sources
Formal IT presentations and debate