**NAPARIMA GIRLS’ HIGH SCHOOL**

**FORM 3 COURSE OUTLINES**

**TERM 1 2016/2017**

**LANGUAGE**

1. Basic Tenses - Simple present tense, Simple Past tense, Present Continuous tense, Past Continuous tense

2. Antonyms and Synonyms

3. Spelling

4. Punctuation

5. Subject Verb Agreement

6. Fact and Opinion

7. Descriptive Writing – People

8. Persuasive Writing – Letter to the Editor & Advertisements

9. Comprehension Skills

**LITERATURE**

To Kill a Mockingbird – Chapters 1- 8

Twelfth Night– Acts 1 & 2

Bite In - Poems:

1. Atieno
2. Warning
3. 5 Ways to Kill a Man
4. Christ Climbed Down
5. My Grandmother

**CHEMISTRY**

· Air and its composition

· Air pollution

· Carbon and nitrogen cycles

· Particulate nature of matter – osmosis, diffusion & Brownian Motion

· Heating / Cooling curves

**PHYSICS**

· Measurements and Units

· Forces

· Motion-Newton’s Laws of Motion, Hooke's Law,Moment, Stability.

 **BIOLOGY**

· Laboratory reports –write up and format

· Ecology study site-importance

· Collection of living organisms

· Classification

· Soil components

· Ecological sampling –quadrat, belt & line transect

· Water pollution

· Land pollution

**INFORMATION AND COMMUNICATION TECHNOLOGY**

* Computational Thinking: Flowcharts

**TECHNOLOGY EDUCATION**

|  |  |
| --- | --- |
| **WK** | **TOPIC** |
| 1 | Challenge 1- Identify the problem |
|  | Challenge 1- Define the problem |
| 2-3 | Challenge 1- Explore possible solutions |
|   | Challenge 1- Assess the various solutions |
| 4-5 | Challenge 1- Try and test out solutions |
| 6 | Challenge 1- Evaluate the solution |
| 7 | Challenge 1- Presentations |
|   | Challenge 1- Assessment |
| 8 | Challenge 2- Identify the problem |
|   | Challenge 2- Define the problem |
|   | Challenge 2- Explore possible solutions |
| 9 | Challenge 2- Assess the various solutions |
| 10 | Challenge 2- Try and test out solutions |
| 11 | Challenge 2- Evaluate the solution |
| 12 | Challenge 2- Presentations |
|   | Challenge 2- Assessment |

**MATHEMATICS**

**1.** **Polygons**

* Properties of a polygon: closed plane figure, number of sides, number of angles, regular vs. irregular
* Calculate the sum of the interior angles of a regular/irregular polygon using the formula (n-2) x 180°;
* Calculate the size of each interior angle
* Calculate the sum of the exterior angles of regular polygon
* Calculate the size of each exterior angle of a regular polygon

**2.** **Trigonometrical ratios**

* Calculate lengths/angles for right angled triangles

**3.** **Algebra**

* Laws of algebra
* Simplification of algebraic expressions
* Factorization

**4.** **Solving simple and simultaneous equations**

* Solve linear equations
* Solve simultaneous equations by elimination or substitution methods
* Solve worded problems

**5.** **The straight line graph**

* Draw lines x = a; y = b; y = mx +c

**6.** **The quadratic equation**

* Draw the quadratic graph, y =ax2 + bx + c.
* Solve quadratic equations graphically and otherwise

**SOCIAL STUDIES**

1. Humanitarian Law
* Definition
* Terms and concepts and examples
1. How We Govern Ourselves
	1. The Meaning of Democracy – Democracy in Action
* democracy – direct and representative
* different forms of government
	1. Development of Representative Government – From Crown Colony to Republicanism
* Crown Colony, Independence, Republicanism – trace changes
* The Constitution – development, human rights and freedoms
1. Caribbean Integration and Global Links
	1. The Caribbean Area – The Integration Process
* Define – integration, cooperation, dependence, interdependence
* Federation, CARIFTA, CARICOM, CSME, ACS – membership, objectives
* Sports, education, medicine, culture, disaster preparedness – benefits, ways of improving regional cooperation – CARIFTA, UWI, CARIFESTA, CDERA
1. Economic Growth and Development
* Technological Change
* Role of Women – Amerindian to contemporary technology
* Europeans, Africans, East Indians, Chinese
* Modern Technological Changes – agriculture, warfare, entertainment
* Communication – methods/forms, benefits,
* Economic Development – The Role of Communication Technology
1. State Welfare System
	* + - role of State Welfare in Trinidad and Tobago
			- available services
			- identify vulnerable groups in the society

**GEOGRAPHY**

Geography is incorporated into the Social Studies paper for NCSE, thus the students are required to review and learn a combination of Social Studies , Geography and History in preparation for this paper.

Topics:

Hazards – Earthquakes, volcanoes, hurricanes and flooding

Weather and Climate – Elements of Weather, types of rainfall

Mapwork – measuring distances, angular bearing, sketch maps, estimating areas

**FOOD AND NUTRITION**

TOPICS

1. The importance of nutrition

2. Careers in Food and Nutrition

3. Cake making- The rubbing-in method

4. The six food groups

5. Principles underlying proteins in the diet

6. Principles underlying sandwich making

　**FRENCH**

At the end of the term students will be able to:

· Identify some French shops

· State what is bought and sold in some French shops

· Use ‘RE’ verbs appropriately in the Present Tense

· Use expressions of quantity appropriately when shopping for food

· Ask the price of something in the Target Language { TL}

· State the price of something in the TL

· Ask politely for items in a shop

· Say that there isn’t any more of something

· Conjugate and use regular ‘IR’ verbs appropriately in the Present Tense

· Identify different European countries, their capitals and tourist attractions

 in the TL

· Use prepositions with towns and countries appropriately

· Identify and state different modes of transport in the TL

· Conjugate and use the verb ‘Venir’ appropriately

· State what they are going and not going to do

· Describe a trip in the future

· State what activities can and can’t be done in certain towns

· Ask permission to do something

· Use the Passé Composé (Perfect Tense ) with auxiliary ‘Avoir’ appropriately

· Write a post card describing a holiday/ trip that they went on

**VISUAL ARTS**

· DRAWING- Patterns found in Nature, Still Life Compositions

· SILK SCREEN- Design and printing techniques

**DANCE**

**ELEMENTS OF DANCE-main ingredience of dance**

**TOPIC** - DANCE ACTIONS (the body), RELATIONSHIPS, TRAVELLING (space), JUMPING, GESTURE AND STILLNESS (dynamics).

a.Students will be able to create a piece of work based on all components of the topic using any genre of music.

b. Students would be able to respond spontaneously and improvise to accompaniment emphasizing particular body parts or actions according to task while working with peers, while travelling, execute their five basic jumps using the proper technique learnt at Form 1 level,

c.Understand non-verbal communication which dance is e.g. (waving, shrugging, work actions like digging, sweeping stop, freeze (stillness), experience and develop control, co-ordination, balance, poise using basic body parts , vary actions through contrast of speed(slow, fast, sudden enduring)

d.Vary actions with degrees of tension e.g. (.strong, light, forceful & gentle) they will also be able to manipulate their bodies within the space whether big or small while working with peers.

**DRAMA**

**·***Use of body and voice*

·                     *Stage space*

·                     *Working in groups: problem solving, staging*

·                     *Improvisation: character development and dialogue*

·                     *Review and Assessment*

**MUSIC**

 Recorder

1. Numbers 4 and 5 on pages 3 & 4 (coursework)

2. Number 6 on page 4 and the D Major scale (end of term)

Pan

1. LCBF pg 76 ‘Mangoes’

2. LCBF pg 60 ‘Laredo’

3. Learn/ revise the scales of – B flat Major, D Major, A Major, E flat major, e minor, d minor

Musicianship

1. Clapping rhythms

2. Scales, solfa

3. Hearing tonality

4. Contour

Theory

1. Scales up to 4 sharps and 4 flats

2. Italian terms (review from book 2, some from book 3)

3. Compound time (review simple time first)

4. Intervals

5. Review same clef transposition

6. Composition

 **PHYSICAL EDUCATION**

* The Digestive System: Structure, functions, working / processes involved, organs which aid digestion
* Football; Brief History, skills, rules, how the game is played, the field, playing positions and play areas, scoring.
* First Aid

 - Definition of first Aid

 - Application of appropriate emergency responses

 - Contents of a first aid kit

 - General procedure in the event of an injury

* Health and Physical Fitness

 Training for performance, the principles of warm up, cool down

 Principles of training including SPORT

 Methods of training

 The effects of training on the human body and human performance

 Planning a training programme

* Basketball: Brief History, skills, rules, how the game is played, the court, playing positions and play areas, scoring.

**Practical:**  Throws: discus, javelin, Gymnastics: rolls, balances, vaults (short routine).

**SPANISH**

¿Qué hay?  Book 3

**STUDENTS WILL BE ABLE TO:-**

\*Talk about their holidays in the Present Tense

\*Where they go and with whom

\*Talk about things they do with their family

\*Discuss sporting events

\*Talk about different ways to travel

\*Give reasons for their preferences

\*Book a trip, find out travel details, talk about dream destinations

\*Find their way around an airport

\*Filling out airport/customs forms

\*Ask information about flights, airlines, and ticket prices

\*Ask and provide information about dates and times of departures, arrivals, and duration of flight

\*Ask about documents required for international travel

\*Express social courtesies when travelling

\*Find out what there is to see in a town or city

\*Ask about distances from one point to another

\*State and ask the distance of one point from another

\*Understand signs they may see {Pg. 42}

\*Identify and use the Present Progressive Tense

\*Ask for and give directions to a specific place

\*Use polite commands when giving directions

\*Listen and answer questions in preparation for the listening exam

\*Prepare for three topics for the oral exam:- Personal Identification, Family & Friends and Daily Routine

\*Find out how to say what you did in the past using the Preterite Tense of regular and irregular verbs

\*Relate what happened to your friends

\*Talk about historical events

\*Learn how to say what the weather was like in the past

\*Identify parts of a letter in Spanish

\*Write an informal letter in Spanish using appropriate vocabulary and tenses

\* Reserve a room

\*Check into a hotel

\*Enquire about hotel services/facilities