<u>**SELAQUI INTERNATIONAL SCHOOL**</u>
<u>**WINTER VACATION ASSIGNMENT 2017-18**</u>

<u>**CLASS VII**</u>

<u>**ENGLISH**</u>

1) **Make a magazine using a scrap book. Things you are required to make are listed as follows:**
   a) Cover page; b) Self composed poems; c) Paste pictures and use good vocabulary to describe them.
   d) Reviews of books you have read. e) Reviews of the movies you have watched. f) Riddles
   g) Reports of any event (take help from newspapers); h) Articles; i) Mini thesaurus

2) **Download Johnny's grammar (British council) and collect all the 21 badges. Screenshot and paste the results in your copy for evidence.**

3) <u>**Learn for the CAP 4**</u>

   The syllabus is:
   Honeycomb
   Invention of Vita –Wonk; Quality; Ashes that made the trees bloom
   Showers of English
   Wit and humor; Bangle sellers; The shed
   Grammar
   Verb agreement; Preposition; Conjunction

<u>**HINDI**</u>

।1।अपने परिवार के तीन सदस्यों के बारे में 6 से 8-8 वाक्यों में अनुच्छेद लिखिए।

।2। अपने विद्यालय मे हुई **क्रॉस कंट्री प्रतियोगिता** के बारे में बताते हुए अपनी बहन को पत्र लिखिए।

।3।दस सुलेख लिखिए।

।4।पठित पाठों को पुनः पढ़िए।

टिप्पणी ः सारा कार्य अपनी हिंदी की उत्तर-पुस्तिका में कीजिए।

<u>**MATHEMATICS & SCIENCE**</u>

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<u>**Development of qualitative ideas about your lung capacity and how it relates to your activities and sleeping patterns from empirical measurements.**</u>

Step 1: You will measure your pulse rate before an activity and after the activity. Note down the 2 pulse rates.

Step 2: You will measure your pulse rate before going to bed for sleep during the night and after waking up from sleep in the morning. Note down the 2 pulse rates.

Step 3: You will note down the 4 different pulse rates from the above two steps for a continuous period of 2 weeks.

Step 4: Make a histogram of the pulse rates for the sleep cycle and the activity cycle, i.e. before and after pulse rates of sleep and activity respectively.

Step 5: Calculate the volume of the lungs by approximating it as a sphere 'r'. Take the radius (r) of the sphere to be half of the chest length of an average boy in grade 7, which is 28 inches. Use the following formula for the volume

$$V = \frac{4}{3}\pi r^3 \tag{1}$$

Step 6: Formulate an equation from the normal pulse rate as

$$72 + k \times x = 2 \times A \times V_L \tag{2}$$

Where the value of 'k' will be different for different individuals, 'x' would be the mean pulse rates for each activity and sleep cycle and V_L is the volume of the lungs. The above expression will give you a qualitative estimate of how your lung capacity changes.

Step 7: From step 6, you will get 14 equations in 'k' for the sleep cycle and 14 for the activity cycle over a period of two weeks.

Step 8: So from each of the 14 values of 'k' in terms of A for the sleep and the activity cycles, determine the mean of 'k' for each cycle.

Comment on the following from your observations.

- Could you take a guess as to what factors would influence the value of 'k'?
- Also, the constant 'A' in the right hand side of the equation, would it change based on the weather?

SOCIAL STUDIES

PROJECT ASSIGNMENT

INSTRUCTIONS: Students have been allocated ONE of the following topics. Word Limit- 350 words.

TOPIC 1

- Collect pictures showing the life styles in Sahara desert and Ladakh region. Paste the pictures in the scrapbook.
- Prepare a small report on the lifestyle of the people in the Sahara and Ladakh desert region.

TOPIC 2

- Collect pictures of Prairies grasslands and Velds of South Africa. Paste the pictures of type of natural vegetation and animals found in the region.
- Prepare a report on the life of people of both the grasslands.

TOPIC 3

- **Make a project on any ONE of the following:**
    1. Mughal Architecture at Agra and Fatehpuri Sikri

OR

2. Rajarajeshwara Temple, Thanjavur

Marks will be allocated for the following aspects:

- Content, Accuracy and Originality.
- Presentation and Creativity.
- Submission of Project on time (1st day of classes after holiday). Project not submitted on the day will not be considered for evaluation.
- Viva

FRENCH

1. Write any ten activities of leisure in French with a picture each of these. **[Ex: Faire le football]**
2. Write 10 sentences in French on any of these topics :
    a) Mon ami
    b) Ma ville
    c) Ma mère
    d) Mes loisirs
    e) Ma maison
    f) Ma salle de classe.