

# GURUKUL INTERNATIONAL SCHOOL, Haldwani

## HOME WORK FOR SUMMER BREAK (2026-27)

### Class- IX

#### ENGLISH

- 1 Imagine a city where gravity works differently for 2 hours every day. Sketch one building from this city and explain in 80 words how people live during those 2 hours.
- 2 Design a 25-minute 'Mind Reset Routine' for days when you feel overwhelmed.  
Include:
  - One creative activity (10 min)
  - One physical activity (15 min)After trying it once, share your experience in about 60 words.
- 3 A local wildlife sanctuary near your town is facing problems due to plastic waste.
  - i) List 3 key points you would put on a poster to educate visitors.
  - ii) Suggest two ways school children can directly help the sanctuary staff.
- 4 When everyone in your group project disagrees with your idea, what 3 steps would you take before giving up or forcing your idea on them.
- 5 Describe a time when someone's tone hurt you more than their words. How would you handle it differently if you were in their place?
- 6 While playing, the ball from your side accidentally breaks your neighbour's window. Write how you would take responsibility and make it right.
  - i) If you had broken your cousin's handmade gift by mistake.
  - ii) If you had posted your friend's photo online without asking.
- 7 As the head of the Cleanliness Committee, prepare a notice for Class 9th students about 'No Plastic Day' to be observed this Friday.
- 8 Grammar Challenge: "The Broken Time Machine"  
Your time machine crashed and jumbled all the tenses in your history project paragraph.  
Wrong Paragraph:  
Yesterday, I will visit the National Museum with my class. When we reach there, the guide tells us about the Harappan seals. I see a huge Ashoka Pillar and I am amazed by its polish. While I take photos of the coins, my friend was calling me from the next gallery. We eat lunch at 1 PM and later the teacher has explained the timeline chart. Tomorrow, I had written everything in my project file and I think it is the best trip ever.  
Your Task:
  - i) Identify the \*7 tense errors\* in the paragraph.
  - ii) Rewrite the whole paragraph using \*correct tenses\* to show that \_all actions happened yesterday\_. Use Simple Past, Past Continuous, and Past Perfect where needed.
  - iii) Underline each corrected verb and write its \*tense name\* in brackets.

#### MATHEMATICS

- Analogy
- 1 Hour : Second :: Tertiary : ?
  - 2 DIC : 493 :: FAH : ?
  - 3 A man mixes with spirit. The of 1L wine and sprit are Rs 180 and Rs 100, respectively. How much quantity of spirit should he mix with 50 L of wine, if so that there is nither or profit nor loss , if mixture is being sold at Rs 50 per liter ?  
Mathematical operation
  - 4 If L stand for + , M stands for - , N stands for  $\times$  , P stands for  $\div$  , then  $14 N 10 L 42 P 2 M 8 = ?$   
Coding and Decoding
  - 5 If AMONG is written as NAOGM and SPINE is written as NSIEP, them LAMON will be written as .  
Decision Making
  - 6 If 3 is subtracted from the middle digit of each of the following numbers and then the position of the digit are reversed which of the following will be the last digit of the middle number after they are arranged in descending order?  
589 , 362 , 554 , 371 , 442  
Blood Relationship
  - 7 Pointing toward a boy Beena said " He is the son of only son of my grandfather " how is that boy related to Beena?  
Clocks
  - 8 How many times are the hands of a clock at right angle in a day ?  
Mathematical ability
  - 9 After a get together every person present shakes the hand of every other person . if there were 105 hands shakes in all how many persons were present in the party ?  
Direction sense

- 10 Rajendra and harendra start walking in opposite direction. Rajendra walked 3 km and Harendra walked 4 km. Then rajendra turned right and walked 4km and harendra turned left and walked 3 km . How far is each from the starting point ?

## SCIENCE

- 1 Talk to your family to discuss and write down the process used to separate:  
 a) butter from curd                      b) salt from seawater                      c) tea leaves from tea
- 2 Explain why can't we separate sugar from tea using filtration?
- 3 "Mixtures Around Me" Activity

Name of Mixture	Homogeneous / Heterogeneous	Method to Separate (if possible)

Observe your home, kitchen, classroom, or surroundings carefully and identify different mixtures used in daily life. Collect or draw pictures of any 10 mixtures and paste them in your notebook.

After pasting the pictures, complete the following table:

Name of Mixture

Homogeneous / Heterogeneous

Method to Separate (if possible)

Then answer these questions:

- a) Which mixture did you find most interesting and why?  
 b) Which separation method is used most commonly in daily life?  
 c) Can all mixtures be separated easily? Explain with one example.  
 d) Create a colorful mind map showing different types of mixtures and methods of separation.
- 4 Mitochondria and chloroplasts two important organelles in plant cell. Discuss how these two organelles are structurally and functionally similar to each other, and different from each other.
- 5 Differentiate between the following pairs of terms based on the clues given in parentheses:  
 Cellmembrane and cell wall (permeability)  
 RER and SER (structure)
- 6 A metro train starts from a station and increases its speed uniformly from 0 to 20 m/s in 10 seconds. It moves with constant speed for 30 seconds and then slows down uniformly to rest in 5 seconds before reaching the next station.  
 A student observes the motion carefully and draws a velocity–time graph.
- i) Identify the type of motion during:  
 First 10 seconds  
 Next 30 seconds  
 Last 5 seconds
- ii) Calculate the acceleration during the first stage.  
 iii) Find retardation during the last stage.  
 iv) Draw the velocity–time graph for the complete journey.
- 7 a) The brakes applied to a car produce an acceleration of  $-6 \text{ m/s}^2$  in the opposite direction to the motion. If the car takes 2 seconds to stop after the application of brakes, calculate the distance it travels during this time.  
 b) A car accelerates uniformly from 18 km/h to 36 km/h in 5 seconds. Calculate:  
 i) The acceleration of the car.  
 ii) The distance covered by the car in that time using the equation

## SOCIAL SCIENCE

- 1 Define the following-  
 a) Waves                      b) inclusivity                      c) equity                      d) seamounts and Guyots
- 2 Explain how social science connects daily life with classroom learning ?
- 3 What is one situation in school where treating everyone the same may be unfair and what equity based support would help ensure participation and dignity for all.
- 4 Map it out-  
 On the outline map of India, locate and label the following  
 a) Thar desert  
 b) River Narmada  
 c) Northern plains  
 d) Eastern coastal plains  
 e) Tamilnadu
- 5 Explain major landforms of the Earth?
- 6 What are the measures to mitigate the natural disasters on the Earth?

- 7 Compare all the factors between social science and social studies.
- 8 Observe any near by area such as road side, playground or river bank.  
Identify -One example of erosion and deposition each. And explain how these processes are changing the earth's surface
- 9 Develop a collage to show the coastal landform.

## HINDI

### पाठ्य पुस्तक व व्याकरण पर आधारित

- 1 आज के समाचार  
मान लीजिए आप एक स्थानीय समाचार पत्र के संवाददाता हैं अपने समाचार पत्र के लिए दो बैलों की काजी हाउस से भागने का समाचार लिखिए  
उदाहरण  
कैसे लिखें  
सबसे पहले शीर्षक दें  
घटना का विवरण(कहाँ, कब, क्या हुआ)  
परिणाम और लोगों की प्रतिक्रिया
- 2 तरुण क्रांति के समर्थक होते हैं और वृद्धि अतीत गौरव के संरक्षक विषय पर अपने विचार व्यक्त कीजिए।
- 3 नीचे दिए गए शब्दों में उपसर्ग या प्रत्यय लगाकर नए शब्द बनाकर लिखिए।  
(मधुर, सुधार, सुंदर, गति, समाज)
- 4 रविदास की तरह निर्गुण काव्य धारा के किसी अन्य कवि के चार दोहों को लिखकर उनकी व्याख्या करते हुए उनके नीतिपरक संदेश को लिखिए।  
**रचनात्मक लेखन**
- 5 आपका कोई मित्र दुर्घटनाग्रस्त होने से एक महीने के लिए बिस्तर पर है ऐसी स्थिति में आप उसकी क्या और कैसे मदद करेंगे अपने विचार लिखिए।
- 6 आपके जन्मदिन पर आपके मामा जी द्वारा दिए गए उपहार के लिए धन्यवाद करते हुए मामा जी को पत्र लिखिए।
- 7 मोबाइल का बढ़ता प्रभाव विषय पर अनुच्छेद लिखिए।

## INFORMATION TECHNOLOGY

- 1 A student spends too much time on mobile games and is unable to complete homework on time.  
i) Identify the problem related to self-management.  
ii) Suggest five ways the student can manage time effectively.
- 2 Imagine your school is organizing an online event. Explain how verbal and non-verbal communication both play an important role during the event.
- 3 Online shopping websites use customer support services to solve problems quickly.  
i) Explain how IT and ITeS industries help such businesses.  
ii) Mention the role of BPO services in customer satisfaction.

### Activity: IT Industry Research Activity

Collect information about any three famous Indian IT companies such as:

- TCS
- Infosys
- Wipro
- HCL

Include:

- Founder's name
- Year of establishment
- Services provided
- Contribution to India's IT industry

(Paste pictures/logo and write the information neatly.)