



Dear Parents,

नमस्कार !!

Diwali, the festival of lights, is an occasion to celebrate victory over defeat, light over darkness, awareness over ignorance - an occasion to celebrate life.

On this auspicious occasion the school will remain closed from 24th October -1st November. It will reopen on 2nd November, 2022.

May this auspicious occasion lighten up your life with happiness, joy and peace.

Wish you a Very Happy Deepawali to all!!

Please find an interesting Home Assignment for your shared herewith.

Regards

GDGPSP

गुमसुम बैठ न जाना साथी !  
दीपक एक जलाना साथी !!  
सधन कालिमा जाल बिछाये

द्वार-देहरी नज़र न आए  
घर की राह दिखाना साथी !  
दीपक एक जलाना साथी!!

घर और बाहर लीप-पोतकर  
कोने-आंगन झाड़-झूडकर  
मन का मैल छुड़ाना साथी !  
दीपक एक जलाना साथी !!

एक हमारा, एक तुम्हारा  
दीप जले, चमके चौबारा  
मिल-जुल पर्व मनाना साथी !  
दीपक एक जलाना साथी !!

आ सकता है कोई झोंका  
क्योंकि हवा को किसने रोका ?  
दोनों हाथ लगाना साथी !  
दीपक एक जलाना साथी.....

दीपावली की हार्दिक शुभकामनाएं

Dr. Shailaja Trivedi  
PRINCIPAL  
GDGPSP

**DIWALI VACATION ASSIGNMENT**

**Grade: IX**

**SUBJECT: SST**

Choose any man-made or natural disaster which your area may be vulnerable to e.g. gas leaks, building collapse, rail or road accidents, laboratory accidents, health hazards due to toxic waste, disposal, earthquakes, floods, volcanic eruption etc.

Develop posters for awareness generation in your own way

**Expected Checklist:**

- Precautions.
- Remedies and Recovery strategies that has develop over the past years.
- Do's & Don'ts.

**SUBJECT: SCIENCE**

Solve the given numerical on topic '**Work and Energy**'

- 1) A mass of 10 kg is dropped from a height of 50 cm. Find its: (i) Kinetic energy (ii) Velocity just as it reaches the ground. Does the velocity depend upon the mass of the particle? Explain. [Take  $g = 10 \text{ m/s}^2$ ]
- 2) A certain household has consumed 250 units of energy during a month. How much energy is this in joule?
- 3) The kinetic energy of an object of mass 'm' moving with a velocity of 5 m/s is 25 J. What will be its kinetic energy when its velocity is doubled? What will be its kinetic energy when its velocity is increased three times?
- 4) A man weighing 70 kg carries a weight of 10 kg to the top of a tower 100 m high. Calculate the work done.
- 5) Which would have greater effect on kinetic energy of an object – doubling the mass, or doubling the velocity?

**SUBJECT: MATHEMATICS**

1. Write various '**Quotes on Mathematics**' on A-4 Size Paper.
2. Solve the following in math holiday homework copy.
  - a) In a triangle, the sides are given as 11cm, 12cm and 13cm. The length of the altitude is 10.25 cm corresponding to the side having length 12cm. (Justify)
  - b) The cost of leveling the ground in a form triangle having sides 51m, 37m and 20m at the rate of Rs 3 per  $\text{m}^2$  is Rs 918 ((Justify)
  - c) From a point in the interior of an equilateral triangle perpendiculars are drawn on three sides. The length of perpendiculars are 14cm, 10cm and 6cm. find the area of triangle.
  - d) E and F are respectively the midpoints of the non parallel sides AD and BC of a trapezium ABCD. Prove that  $EF \parallel AB$  and  $EF = \frac{1}{2} (AB + CD)$ .
  - e) Prove that the line joining the midpoints of the diagonals of a trapezium is parallel to the parallel sides of the trapezium.