

SAINIK SCHOOL AMARAVATHINAGAR

HOLIDAY HOME WORK 2019-2020

CLASS : VIII

SUBJECT : PHYSICS

S. NO	TOPIC	ACTIVITY	TIME PERIOD	LEARNING OUTCOMES	ANNEXTURE NO.
1	PRESSURE	PROJECT WORK	5HRS	UNDERSTANDING APPLICATIONS	A
2	TYPES OF FORCES	QUESTIONS AND ANSWERS	5HRS	UNDERSTANDING	B
3	FRICTION	QUESTIONS AND ANSWERS	3HRS	UNDERSTANDING	C

ANNEXTURE:

- | | | |
|---|-----------------|--|
| A | PRESSURE | SIMPLE ACTIVITY - 1
DESCRIPTIVE QUESTIONS -2 |
| B | TYPES OF FORCES | DESCRIPTIVE QUESTIONS -1
SIMPLE DESCRIPTIVE QUESTIONS - 2 |
| C | FRICTION | SIMPLE DESCRIPTIVE QUESTIONS - 2 |

TEACHER'S NAME : Mr P G GNANADURAI

TEACHER'S SIGNATURE

:

**RECOMMENDED BY
VICE PRINCIPAL**

**APPROVED BY
PRINCIPAL**

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ANNEXTURE : A

- 1 Measure the dimensions of a brick. If the brick weighs approximately 50 Newton, Calculate the pressure exerted by the brick on a table top by all the three sides($l \times b$, $b \times h$, $h \times l$) and also compare the results obtained.
- 2 Describe with the help of a neat diagram or a picture, the instruments which can be used to measure the pressure of a human body and atmospheric pressure.
- 3 Write any five uses of atmospheric pressure in our daily life with possible pictures.

ANNEXTURE: B

- 4 Write short notes following forces with the help of diagrams or pictures :
 - (a) Muscular force
 - (b) Magnetic force
 - (c) Electrostatic force
 - (d) Gravitational force
 - (e) Nuclear force
- 5 If a force of 2N is applied on a box towards north and a force of 3N in south. In which direction the box will move?
- 6 What are the various effects of force? Explain them with some examples.

ANNEXTURE: C

- 7 Mention three disadvantages of friction between the parts of a machine. How does (a) oiling and (b) usage of ball bearings help to reduce friction?
- 8 What role does friction play in sport of your choice? Collect some picture of that sport in action where friction is either supporting it or opposing it.