

Topic

: Simple Machine

BALI KIDDY SECONDARY SCHOOL

ACADEMIC YEAR 2020/2021

SCIENCE WEEK 4 ASSIGNMENT

Presence list number : Class : Date :	Objectivities :	
3. Describe the work of lever, inclined line, pulley and wheels & axles 4. Calculate the MA of some simple machines 5. Calculate the moments of an equilibrium state of lever Name : Presence list number : Class : Date : Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	Describe the	equilibrium moment
4. Calculate the MA of some simple machines 5. Calculate the moments of an equilibrium state of lever Name : Presence list number : Class : Date : Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	2. Describe the	effect of mechanical advantage (MA) and its factor of a simple machine
5. Calculate the moments of an equilibrium state of lever Name : Presence list number : Class : Date : Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	3. Describe the	work of lever, inclined line, pulley and wheels & axles
Name : Presence list number : Class : Date : Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	4. Calculate the	MA of some simple machines
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Class : Date : Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	Name	:
Questions 1. How are the clockwise and anti-clockwise moments of a balance seesaw?	Presence list number	1
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How are the clockwise and anti-clockwise moments of a balance seesaw?	Date	1
How are the clockwise and anti-clockwise moments of a balance seesaw?		
	Questions	
Answer:	How are the clock	twise and anti-clockwise moments of a balance seesaw?
	Answer:	
L. C.	L	
2. Describe the difference in MA of a pair of small scissor and the big one.	2. Describe the diffe	rence in MA of a pair of small scissor and the big one.

Why do the roads wind up at the m	ountains rather	than go straig	ght?
Answer:			
	correct diagram		
	_	load effort	pivot load
irst class lever	_		pivot
irst class lever	_	load effort	pivot load
	1.	load effort	pivot
irst class lever	1.	load effort effort load	pivot load pivot effort

3.

4.

a.

b.

c.

5. Which of the diagram below requires less force to move the load?





a.

6. Describe how wheels and axles work and give two examples.

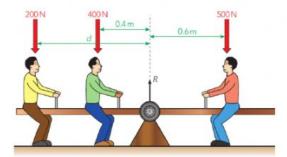
Answer:				

b.

7. A wheel with radius of 90 cm is applied on an axle with radius 30 cm. What is the mechanical advantage of the system?

Answer: _____

8. Look at the diagram below.



Person 1's weight is 500 N. The moment is ______. The direction of the moment is (fill with clock-wise and anti-clockwise) _____.

Person 2's weight is 400 N. The moment is	The direction of the moment is (fill		
with clock-wise and anti-clockwise)			
Person 3's weight is 300 N. The moment is	The <i>d</i> must be	meters.	
The direction of the moment is (fill with clock-wise	and anti-clockwise)		

9. Match the human body diagram with the correct class of levers.

