

Work booklet VSBO PKL

2025

Period 1 Tuesday, May 20 7:30 – 10.00 a.m.

	Physics & Chemistry 1
Candidate name	Candidate number

REMEMBER TO HAND IN THIS WORK BOOKLET

00 IIII –		liters.			
75.9 oz =		kg.			
0 Hz =		times pe	er seco	ond.	
		sound nite			
		sound pito			
dB is a unit	for	noise nuis	ance.		
		speed of s	sound.		
		lab	or.		
watt is the u	ınit fa	ele	ectrical	power.	
watt is the t	טו זוווג	VO	lume.		
		no	ise nui	sance.	
material		corrosion resistant	n	naterial	corrosion resistant
material wood				naterial tone	
			S		

Multiple choice: circle the correct answer; indicate corrections clearly:

_iquid P is		
_iquid Q stays under liqu	id P because	
_ist of words: eye glasses, blaze, corr	osion, fire, belt, skir	n, stains, oxygen, e
1)		
2)		
3)		
<i>5</i> ,		
	physical process	chemical reaction
phenomenon	priysical process	
melting ice	priysical process	
	priysical process	
melting ice	priysical process	
melting ice from wood to charcoal	priysical process	
melting ice from wood to charcoal evaporating seawater	priysical process	
melting ice from wood to charcoal evaporating seawater rusting iron		
melting ice from wood to charcoal evaporating seawater	rough iron is	
melting ice from wood to charcoal evaporating seawater rusting iron Step 1: sound velocity the	rough iron is	
melting ice from wood to charcoal evaporating seawater rusting iron Step 1: sound velocity the Step 2: travel distance in Step 3:	rough iron is	
melting ice from wood to charcoal evaporating seawater rusting iron Step 1: sound velocity the	rough iron is	
melting ice from wood to charcoal evaporating seawater rusting iron Step 1: sound velocity the Step 2: travel distance in Step 3:	rough iron is	

9 A B C D

10

oscilloscope image number	frequency
1.	
2.	
3.	

11	
12	The Binas information booklet states that to 115 dB applies:
	Type of sound:
	Risk of hearing loss:
	Hearing loss begins to set in after minutes.

loca- tion	all three lightbulbs are protected	not all three lightbulbs are protected
1		
2		
3		

14 A B C D

13

15

component number	name component
1.	
2.	
3.	
4.	

4	c	Α	D	С	
1	0	Α	В	C	D

17	list	Ωf	WO	rde
17	1 151	OI	wu	านร.

insulator, conductor, voltmeter, ammeter, open, closed, copper rod, glass rod, aluminum rod, is, is no.

_		
⊢ vn	anation	•
$-\lambda \nu$	anation	

The lights are not on because the .	is
a(n),	which makes the circuit
and	therefore therecurrent.

series circuit of four lightbulbs and a battery				

para	el_circuit of four lightbu	bs and a battery
\otimes		

19

technical issue	is a probable cause	is not a probable cause
A cord is broken on the inside.		
The switch is not working properly.		
The capacity of the voltage source is too small.		

20	Calculation of amperage
21	Calculation of equivalence resistance
22	A B C D
23	
	The amount of energy in one day equals kWh.

24	In the long run, air conditioner number is more economical.					
	The reason for	r this is				
25	Statement 1.					
	In a transform	er, the primary coil is o	connected to	alternating current direct current		
	Statement 2.		[
	For this trans	former, the primary v	oltane is:	ss		
	than the seco	ondary voltage.	L	i		
26	List of choice	words:				
26	List of choice sunlight,	words: chemical energy,	radiation er	nergy,	transistors,	
26			radiation er		transistors, resistors.	
26	sunlight, solar cells,	chemical energy,	electrical el	nergy,	•	
26	sunlight, solar cells,	chemical energy, kinetic energy,	electrical el	nergy,	•	
26	sunlight, solar cells, (1) (2)	chemical energy, kinetic energy,	electrical e	nergy,	•	
26	sunlight, solar cells, (1) (2)	chemical energy, kinetic energy,	electrical e	nergy,	•	
	sunlight, solar cells, (1)	chemical energy, kinetic energy,	electrical el	nergy,	resistors.	
	sunlight, solar cells, (1)	chemical energy, kinetic energy,	electrical en	nergy,	resistors.	
	sunlight, solar cells, (1)	chemical energy, kinetic energy,	electrical en	nergy,	resistors.	

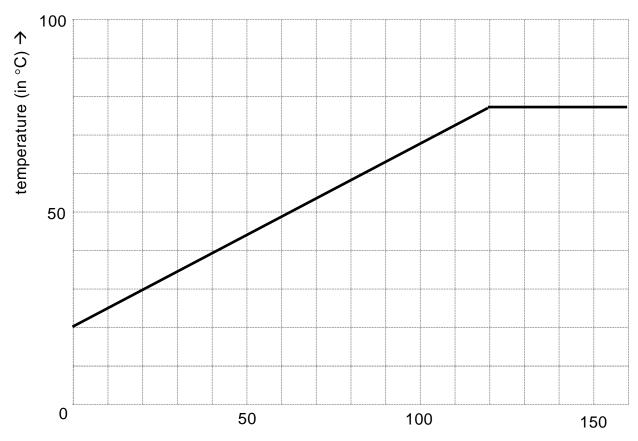
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The data in the table shows that every ... (1) ... minutes, the ... (2) (3) ... and that is because of ... (4) ... mass.

(1) (2)

(3) (4)

29 temperature-time diagram



time in seconds →

.....

.....

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30	(1)
	(2)
	(3)

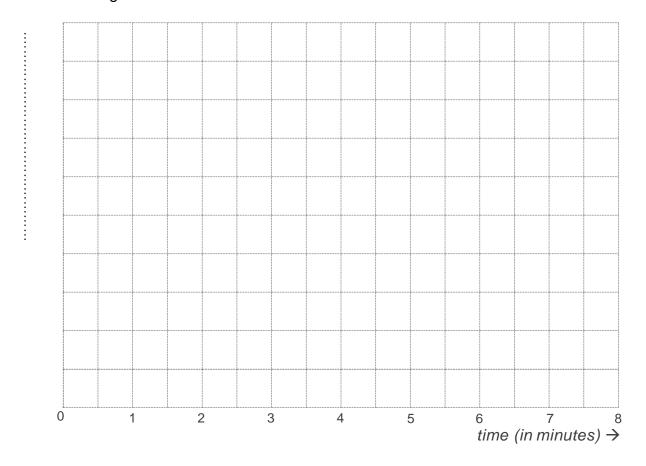
31 A B C

32

statement	true	false
1. Pulley 1 doubles the amount of rope pulling.		
Pulley 1 reduces the pull up load by half to 5 newtons.		
3. Pulley 2 makes lifting easier.		
Pulley 2 reduces the pull up load by half to 5 newtons.		

33 A B C D

34 v-t diagram



35	 •
	•

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