

## ANSWER KEY

YEAR : 2021

SCHOOL : TAO NAN PRIMARY SCHOOL

LEVEL : PRIMARY 6

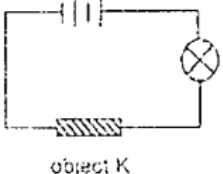
SUBJECT : SCIENCE

TERM : MID-YEAR EXAM

<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	<b>Q6</b>	<b>Q7</b>	<b>Q8</b>	<b>Q9</b>	<b>Q10</b>
1	2	3	3	2	4	4	1	1	4
<b>Q11</b>	<b>Q12</b>	<b>Q13</b>	<b>Q14</b>	<b>Q15</b>	<b>Q16</b>	<b>Q17</b>	<b>Q18</b>	<b>Q19</b>	<b>Q20</b>
3	2	4	4	1	1	4	2	3	1
<b>Q21</b>	<b>Q22</b>	<b>Q23</b>	<b>Q24</b>	<b>Q25</b>	<b>Q26</b>	<b>Q27</b>	<b>Q28</b>		
2	4	3	3	2	2	4	1		

Tao Nan School -Suggested Answers for 2021 P6 MYE

Qn	Ans Key
29a)	The brightly-coloured flowers attract animals / insects / pollinators.
b)	Animals ate the fruit together with the seeds, moved some distance away and passed the seeds out in their droppings away from the parent plant
c)	It helps to prevent overcrowding OR It reduces competition for sunlight, water, mineral salts and space.
30a)	Organism Y feeds on Organism X that feeds on the blood of Organism Z
b)	Organism Z provides a source of food for Organism Y.
c)	No. Organism X has 8 legs but insects have 6 legs
31a)	<p>_____ J</p> <p>..... K</p>
b)	The population of J will decrease as J has less plants to feed on. K has fewer J to feed on so the population of K will decrease
32a)	<p>i) B</p> <p>ii) D</p>
b)	His heart rate increased as his heart pumped blood faster to send oxygen and digested food faster to all parts of the body.
c)	All systems ticked.
33a)	Organism Q helps Animal P to camouflage among the trees to avoid being easily spotted by their predators.
b)	The droppings of Animal Z provides nutrients for the tree when it decomposes
c)	Animal Z can use its sharp claws to scratch/injure/hurt its predators.  Its flexible neck/spine/ability to rotate its head can help it spot predators more easily/earlier/behind so that it can get ready to escape from the predators first/earlier
34a)	Frictional force
b)	Friction between the knife blade and object M produces heat.
c)	The knife must be strong to cut an apple without breaking.
35a)	As the mass of the ball increase, the height H decreases.
b)	To ensure her results are reliable.

Qn	Ans Key															
35c)	Replace the original spring with a thicker/stiffer/longer spring.															
d)	There will be more (elastic) potential energy in the compressed spring that can be converted to more kinetic energy of the spring which is converted to more (gravitational) potential energy.															
36a)	Strength															
b)	<table border="1"> <thead> <tr> <th></th> <th>Statements</th> <th>Variables</th> </tr> </thead> <tbody> <tr> <td>i</td> <td>Material of String</td> <td></td> </tr> <tr> <td>ii</td> <td>Number of strings</td> <td>✓</td> </tr> <tr> <td>iii</td> <td>Mass load hung onto each string until it breaks</td> <td></td> </tr> <tr> <td>iv</td> <td>Distance between the two retort stands</td> <td>✓</td> </tr> </tbody> </table>		Statements	Variables	i	Material of String		ii	Number of strings	✓	iii	Mass load hung onto each string until it breaks		iv	Distance between the two retort stands	✓
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c)	String Y. It is the strongest string and could hold the most mass before breaking, so it can hold the most wet clothes without breaking.															
37a)	<table border="1"> <thead> <tr> <th>Clips tested</th> <th>Bulb of circuit tester lights up</th> </tr> </thead> <tbody> <tr> <td>A and C</td> <td></td> </tr> <tr> <td>A and E</td> <td></td> </tr> <tr> <td>B and D</td> <td></td> </tr> <tr> <td>B and F</td> <td>✓</td> </tr> </tbody> </table>	Clips tested	Bulb of circuit tester lights up	A and C		A and E		B and D		B and F	✓					
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b)	 <p>object K</p>															
c)	It is a conductor of electricity/ electrical conductor/ allows electricity to pass through/ conducts electricity.															
d)	<p>potential energy (battery)</p> <p>electrical energy (circuit)</p> <p>light energy (light bulb)</p>															
38a)	Any temperature between 55°C and 85°C															
b)	Heat travels from hotter water to colder water. OR Heat from the water in T is lost to the water in S.															
c)	26°C / Room temperature															
d)	The water would lose heat to the surroundings until the temperature of the water reaches room temperature/equilibrium.															

Qn	Ans Key
39a)	Draw water droplets on the inner side of the lens (facing the eyes) only
b)	The warmer water vapour (in the air) inside the goggles came into contact/ touched with the cooler (inner) surface of the lens... or Warm water vapour in the goggles come into contact with the cool lens. .  ... lost heat to the surface and turned to water droplets or ... condensed into water droplets.
40a)	This will ensure mass/texture of wooden block does not affect distance moved by the wooden block/the results
b)	The distance moved by the wooden block is the greatest.
c)	Add more books to the ramp. This will increase the height of the ramp and increase the GPE of the trolley which will convert to greater KE of the moving trolley, transferring more KE to the wooden block.