



**Cambridge International Examinations**  
Cambridge Primary Checkpoint

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**SCIENCE**

Paper 2

MARK SCHEME

Maximum Mark: 50

**0846/02**

**April 2016**

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**IMPORTANT NOTICE**

Mark Schemes have been issued on the basis of **one** copy per Assistant Examiner and two copies per Team Leader.

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This document consists of **13** printed pages and **1** blank page.

Question number			1	CPS00281												
Part	CF	Skill	Mark	Answer	Further Information											
	6Be5	K	2	<table border="1"> <thead> <tr> <th>word</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>consumer</td> <td>an animal that eats plants and other animals</td> </tr> <tr> <td>predator</td> <td>a green plant</td> </tr> <tr> <td>prey</td> <td>an animal eaten by another animal</td> </tr> <tr> <td>producer</td> <td>an animal that catches and eats another animal</td> </tr> </tbody> </table>	word	description	consumer	an animal that eats plants and other animals	predator	a green plant	prey	an animal eaten by another animal	producer	an animal that catches and eats another animal	<b>four</b> correct = 2 marks <b>two</b> or <b>three</b> correct = 1 mark <b>one</b> correct = 0 marks	
word	description															
consumer	an animal that eats plants and other animals															
predator	a green plant															
prey	an animal eaten by another animal															
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<b>Total</b>			<b>2</b>													

Question number			2	CPS00148		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	6Pm1	K	1	copper / silver		
(b)	6Pm1	K	1	silver / lamp is very bright	more than one answer = 0 marks	
(c)	6Pm1	K	1	plastic / lamp does not work		
<b>Total</b>			<b>3</b>			

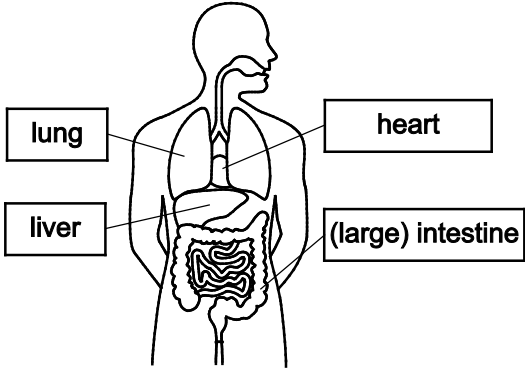
Question number			3	CPS00449		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	5Pb2	K	1	24 (hours)		
(b)	5Pb3	K	1	1 (year)		
(c)	5Pb1	K	1	(because) the Earth is spinning / Earth spins / Earth rotates / Earth turns (on its own axis)		
<b>Total</b>			<b>3</b>			

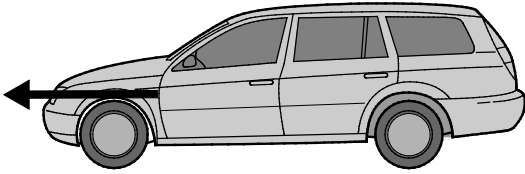
Question number		4		CPS00508		
Part	CF	Skill	Mark	Answer	Further Information	
	5Bp7	A	2	<p>seed dispersal</p> <p>seed production</p> <p>(fertilisation)</p> <p>pollination</p> <p>germination</p> <p>growth</p>	<p><b>five</b> correct = 2 marks</p> <p><b>two, three or four</b> correct = 1 mark</p> <p><b>one</b> correct = 0 marks</p>	
<b>Total</b>			<b>2</b>			

Question number		5		CPS00476		
Part	CF	Skill	Mark	Answer	Further Information	
	6Pf4	A	2	<p>The bigger parachutes have <b>more</b> air resistance.</p> <p>This makes the bigger parachutes fall with <b>less</b> speed.</p>	<p>each correct sentence = 1 mark</p>	
<b>Total</b>			<b>2</b>			
















Question number		6	CPS00391			
Part	CF	Skill	Mark	Answer	Further Information	
(a)	3Cp4	A	2	attracted to a magnet <input type="checkbox"/> good conductor of electricity <input type="checkbox"/> good conductor of heat <input type="checkbox"/> insoluble in water <input checked="" type="checkbox"/> not poisonous <input checked="" type="checkbox"/>	<b>one</b> mark for each correct tick if <b>three</b> ticks, <b>two</b> correct = 1 mark if <b>three</b> ticks, <b>one</b> correct = 0 marks <b>four</b> or more ticks = 0 marks	
(b)	4Pm5	A	2	use a magnet steel is magnetic / steel is attracted to a magnet / aluminium is not magnetic / aluminium is not attracted to a magnet	<b>one</b> mark for each correct answer	
<b>Total</b>			<b>4</b>			

Question number		7	CPS00483			
Part	CF	Skill	Mark	Answer	Further Information	
	5PI7	A	2	Blessy can see something because light has entered her eyes. <input checked="" type="checkbox"/> Blessy has been reflected in the mirror. <input type="checkbox"/> Blessy is behind the mirror. <input type="checkbox"/> The light from Blessy does not change direction. <input type="checkbox"/> The light from Blessy is reflected by the mirror. <input checked="" type="checkbox"/>	<b>one</b> mark for each correct tick <b>three</b> ticks, <b>two</b> correct = 1 mark <b>three</b> ticks, <b>one</b> correct = 0 marks <b>four</b> or more ticks = 0 marks	
<b>Total</b>			<b>2</b>			

Question number			8	CPS00308		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	6Bh2	K	3	 <p>The diagram shows a human torso with the digestive system highlighted. Labels with lines pointing to the organs are: 'lung' (pointing to the left lung), 'heart' (pointing to the heart), 'liver' (pointing to the liver), and '(large) intestine' (pointing to the large intestine).</p>	<b>four</b> correct = 3 marks <b>three</b> correct = 2 marks <b>one</b> or <b>two</b> correct = 1 mark	
(b)	6Bh3	K	2	stomach – digests food / digests protein brain – (idea that) it controls the body or other organs	each correct answer = 1 mark <b>ignore</b> just gets information	
<b>Total</b>			<b>5</b>			

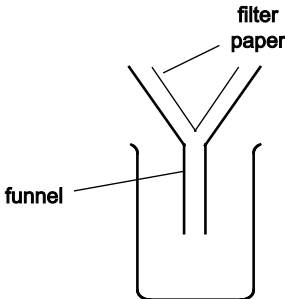
Question number			9	CPS00424		
Part	CF	Skill	Mark	Answer	Further Information	
	6Pf2	A	1	 <p>The diagram shows a side view of a car. A thick black arrow points from the front of the car towards the left, indicating the direction of travel.</p>	any extra arrows pointing in wrong direction = 0 marks	
<b>Total</b>			<b>1</b>			

Question number		10	CPS00066		
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Eo3 5PI2	E	3		<p><b>five</b> points correctly plotted is 2 marks</p> <p><b>three</b> or <b>four</b> points correctly plotted = 1 mark</p> <p><b>one</b> or <b>two</b> points correctly plotted = 0 marks</p> <p><b>and</b> line joined = 1 mark</p> <p>bar chart plotted correctly = 1 mark</p> <p>bar chart plotted correctly and line joined = 2 marks</p>
(b)	6Eo7 5PI2	E	1	35 (cm)	
<b>Total</b>			<b>4</b>		

Question number		11	CPS00509														
Part	CF	Skill	Mark	Answer	Further Information												
(a)	4Be1	A	2	<table border="1"> <thead> <tr> <th>animal</th> <th>natural habitat</th> </tr> </thead> <tbody> <tr> <td>   earthworm </td> <td>soil</td> </tr> <tr> <td>   frog </td> <td>pond</td> </tr> <tr> <td>   gerbil </td> <td>desert</td> </tr> <tr> <td>   polar bear </td> <td>sea ice</td> </tr> <tr> <td>   squirrel </td> <td>tree</td> </tr> </tbody> </table>	animal	natural habitat	 earthworm	soil	 frog	pond	 gerbil	desert	 polar bear	sea ice	 squirrel	tree	<b>five</b> correct = 2 marks <b>two, three or four</b> correct = 1 mark <b>one</b> correct = 0 marks
animal	natural habitat																
 earthworm	soil																
 frog	pond																
 gerbil	desert																
 polar bear	sea ice																
 squirrel	tree																

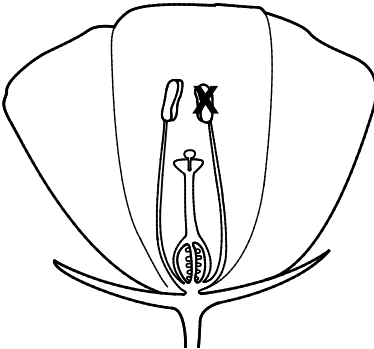
4(b)	4Be1	A	2	<p><b>Any two rows from</b></p> <table border="1" data-bbox="635 232 1102 1182"> <tr> <td data-bbox="635 232 821 439">hump</td> <td data-bbox="821 232 1102 439">to store fat /store energy / to store water</td> </tr> <tr> <td data-bbox="635 439 821 674">big feet / large feet / padded feet / flat feet</td> <td data-bbox="821 439 1102 674">to stop it sinking into the sand / spreads its weight / to walk on sand</td> </tr> <tr> <td data-bbox="635 674 821 880">long eyelashes / big eyebrows</td> <td data-bbox="821 674 1102 880">stops sand/dust getting in (its eyes) / protection during a sandstorm</td> </tr> <tr> <td data-bbox="635 880 821 1010">slits for nostrils</td> <td data-bbox="821 880 1102 1010">stops sand getting in (its nose)</td> </tr> <tr> <td data-bbox="635 1010 821 1182">short fur</td> <td data-bbox="821 1010 1102 1182">it stops it getting too warm / stops it overheating</td> </tr> </table>	hump	to store fat /store energy / to store water	big feet / large feet / padded feet / flat feet	to stop it sinking into the sand / spreads its weight / to walk on sand	long eyelashes / big eyebrows	stops sand/dust getting in (its eyes) / protection during a sandstorm	slits for nostrils	stops sand getting in (its nose)	short fur	it stops it getting too warm / stops it overheating	<p>each complete answer to what it has and why (complete row in table) = 1 mark</p>
hump	to store fat /store energy / to store water														
big feet / large feet / padded feet / flat feet	to stop it sinking into the sand / spreads its weight / to walk on sand														
long eyelashes / big eyebrows	stops sand/dust getting in (its eyes) / protection during a sandstorm														
slits for nostrils	stops sand getting in (its nose)														
short fur	it stops it getting too warm / stops it overheating														
<b>Total</b>			<b>4</b>												



Question number		12	CPS00293		
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Cc2	A	2	use a magnet  iron is attracted / potassium chloride and chalk are not attracted	<b>one</b> mark for each correct answer
(b)	6Cc4	K	3	<p>diagram showing a filter paper in a funnel</p> <p>filter paper <b>and</b> funnel labelled</p> <p>a container below the filtering apparatus</p> <p>example for 3 marks:</p> 	
(c)	5Cs5	A	1	evaporates / turns into steam / turns into gas / turns into water vapour	
<b>Total</b>			<b>6</b>		

Question number		13	CPS00470		
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Ep4 5Cs1	E	1	<p>All four beakers start with the same volume of water. <input type="checkbox"/></p> <p>Beaker <b>D</b> will take the shortest time for all the water to evaporate. <input checked="" type="checkbox"/></p> <p>Evaporation is the process by which a liquid changes into a gas. <input type="checkbox"/></p> <p>How many days will it take for all the water to evaporate from each beaker? <input type="checkbox"/></p> <p>The water in the four beakers must be at the same temperature. <input type="checkbox"/></p>	more than <b>one</b> tick = 0 marks

<b>(b)</b>	6Ep5 5Cs1	E	1	<p>All four beakers start with the same volume of water. <input type="checkbox"/></p> <p>Beaker <b>D</b> will take the shortest time for all the water to evaporate. <input type="checkbox"/></p> <p>Evaporation is the process by which a liquid changes into a gas. <input type="checkbox"/></p> <p>How many days will it take for all the water to evaporate from each beaker? <input checked="" type="checkbox"/></p> <p>The water in the four beakers must be at the same temperature. <input type="checkbox"/></p>	more than <b>one</b> tick = 0 marks
<b>(c)</b>	5Ep4 5Cs1	E	2	<p>All four beakers start with the same volume of water. <input checked="" type="checkbox"/></p> <p>Beaker <b>D</b> will take the shortest time for all the water to evaporate. <input type="checkbox"/></p> <p>Evaporation is the process by which a liquid changes into a gas. <input type="checkbox"/></p> <p>How many days will it take for all the water to evaporate from each beaker? <input type="checkbox"/></p> <p>The water in the four beakers must be at the same temperature. <input checked="" type="checkbox"/></p>	<p><b>one</b> mark for each correct answer</p> <p><b>three</b> ticks with <b>two</b> correct = 1 mark</p> <p><b>three</b> ticks with <b>one</b> correct = 0 marks</p> <p><b>four</b> or <b>five</b> ticks = 0 marks</p>
<b>Total</b>			<b>4</b>		

Question number		14	CPS00525		
Part	CF	Skill	Mark	Answer	Further Information
(a)	5Bp6	A	1	A B C D <b>E</b>	more than one answer circled = 0 marks
(b)	5Bp6	A	1	<b>F and G</b> G and H H and K K and L	more than one answer circled = 0 marks
(c)	5Bp6	A	1		if more than one <b>X</b> then all must be correct for 1 mark
<b>Total</b>			<b>3</b>		

Question number		15	CPS00429		
Part	CF	Skill	Mark	Answer	Further Information
(a)	4Ps1	K	1	The ruler makes a sound because it <b>vibrates</b> .	
(b)	4Ps5	A	1	<p>pitch is higher in investigation 1 <input checked="" type="checkbox"/></p> <p>pitch is lower in investigation 1 <input type="checkbox"/></p> <p>pitch is the same in both investigations <input type="checkbox"/></p>	more than <b>one</b> tick = 0 marks
(c)	4Ps4	A	1	<p>decreases <input type="checkbox"/></p> <p>increases <input checked="" type="checkbox"/></p> <p>stays the same <input type="checkbox"/></p>	more than <b>one</b> tick = 0 marks
<b>Total</b>			<b>3</b>		

Question number		16		CPS00533	
Part	CF	Skill	Mark	Answer	Further Information
(a)	5Ep4 5Bp4	E	1	He uses the same <b>number</b> of seeds in each beaker.	
(b)	5Ep6 5Bp4	E	1	put in dark / put in cupboard / cover / put in box / put opaque material over it	
<b>Total</b>			<b>2</b>		

