

ANSWER GUIDE




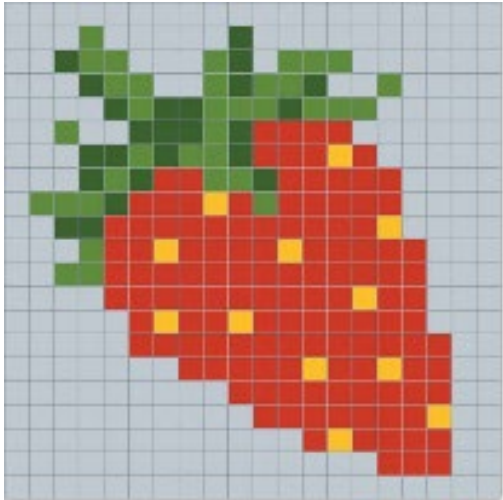
Term 4, 2020

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Part 1: World of colour

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Activity title	Answers
Colours crossword	
A-maze-ing	
What's that shade?	

Activity title	Answers																
Colour word sleuth	<p>Possible definitions:</p> <table border="1"> <tr> <td>Shade</td><td>a colour, especially with regard to how light or dark it is or as distinguished from one nearly like it</td></tr> <tr> <td>Hue</td><td>a colour or shade.</td></tr> <tr> <td>Tint</td><td>colour (something) slightly; tinge.</td></tr> <tr> <td>Tone</td><td>the particular quality of brightness, deepness, or hue of a shade of a colour.</td></tr> <tr> <td>Pigment</td><td>a substance used for colouring or painting, especially a dry powder, which when mixed with oil, water, or another medium constitutes a paint or ink.</td></tr> <tr> <td>Tinge</td><td>colour slightly.</td></tr> <tr> <td>Stain</td><td>colour (a material or object) by applying a penetrative dye or chemical.</td></tr> <tr> <td>Dye</td><td>a natural or synthetic substance used to add a colour to or change the colour of something.</td></tr> </table> 	Shade	a colour, especially with regard to how light or dark it is or as distinguished from one nearly like it	Hue	a colour or shade.	Tint	colour (something) slightly; tinge.	Tone	the particular quality of brightness, deepness, or hue of a shade of a colour.	Pigment	a substance used for colouring or painting, especially a dry powder, which when mixed with oil, water, or another medium constitutes a paint or ink.	Tinge	colour slightly.	Stain	colour (a material or object) by applying a penetrative dye or chemical.	Dye	a natural or synthetic substance used to add a colour to or change the colour of something.
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Colour by numbers																	

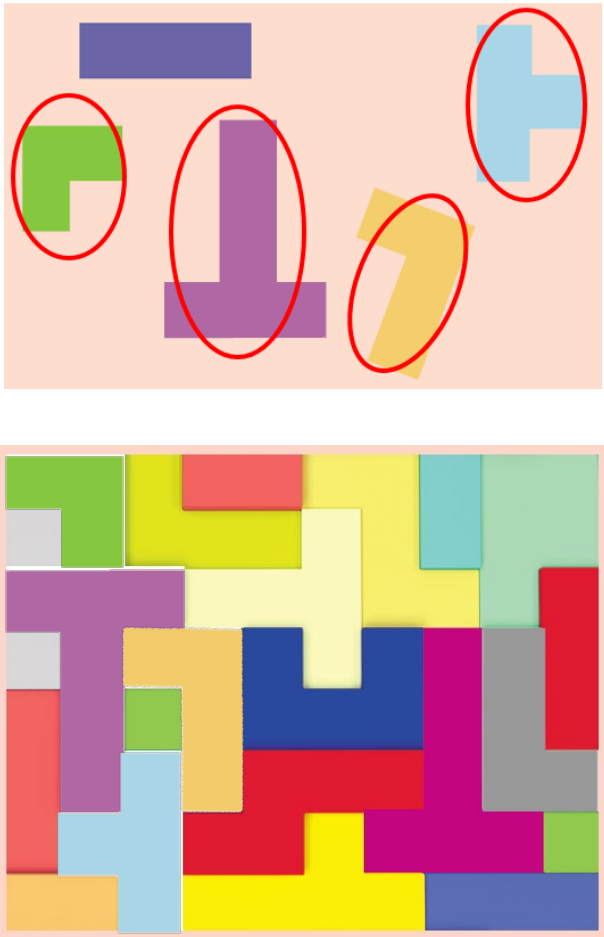
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Activity title	Answers
Found object colour wheel	Red + blue = purple Yellow + red = orange Blue + yellow = green

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Activity title	Answers
Counting colours	11 (dark blue, light blue, green, yellow, red, pink, purple, brown, grey, white, orange)

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Activity title	Answers
Tangram trouble	

Activity title	Answers												
Eat the rainbow	<p>Some possible answers</p> <table> <tr> <td></td><td>Fruit and vegetables</td></tr> <tr> <td>Red</td><td>Tomato, strawberry, cherry, capsicum, chilli, raspberry, apple</td></tr> <tr> <td>Orange</td><td>Orange, pumpkin, sweet potato, carrot, apricot, mango, mandarin, rockmelon, paw paw, nectarine</td></tr> <tr> <td>Yellow</td><td>Lemon, capsicum, squash, pineapple, banana, golden kiwi fruit, corn</td></tr> <tr> <td>Green</td><td>Apple, asparagus, broccoli, grapes, peas, capsicum, kiwifruit, spinach, zucchini, honeydew melon, pear, lime</td></tr> <tr> <td>Blue or purple</td><td>Blueberries, blackberries, plums, currants, beetroot, eggplant, purple cauliflower, figs, grapes, purple cabbage</td></tr> </table>		Fruit and vegetables	Red	Tomato, strawberry, cherry, capsicum, chilli, raspberry, apple	Orange	Orange, pumpkin, sweet potato, carrot, apricot, mango, mandarin, rockmelon, paw paw, nectarine	Yellow	Lemon, capsicum, squash, pineapple, banana, golden kiwi fruit, corn	Green	Apple, asparagus, broccoli, grapes, peas, capsicum, kiwifruit, spinach, zucchini, honeydew melon, pear, lime	Blue or purple	Blueberries, blackberries, plums, currants, beetroot, eggplant, purple cauliflower, figs, grapes, purple cabbage
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Activity title	Answers
Rainbow paper	Examples of thin-film interference: when oil mixes with rain on roads; on the surface of soap bubbles; flies wings

Activity title	Answers
Walking water	<p>What happened?</p> <p>The empty cups are now filled with coloured water. The cup between blue and yellow is now green, the cup between blue and red is now purple, and the cup between red and yellow is now orange</p> <p>How did this happen?</p> <p>As the coloured water was absorbed by the paper towel, it moved along the strip using capillary action. Once the paper towel reached its capacity to absorb it deposited some water into the empty cups. As the two different colours mixed in the empty cups they created new colours.</p>
Coloured candy	<p>What happened?</p> <p>Colours started spreading out from the candy into the water.</p> <p>How did this happen</p> <p>The hard crunchy shell on the candy is made of sugar and coloured dye. Sugar dissolves in warm water, so when the water is added the coloured sugar dissolves into the water and spreads out taking the colour with it.</p>

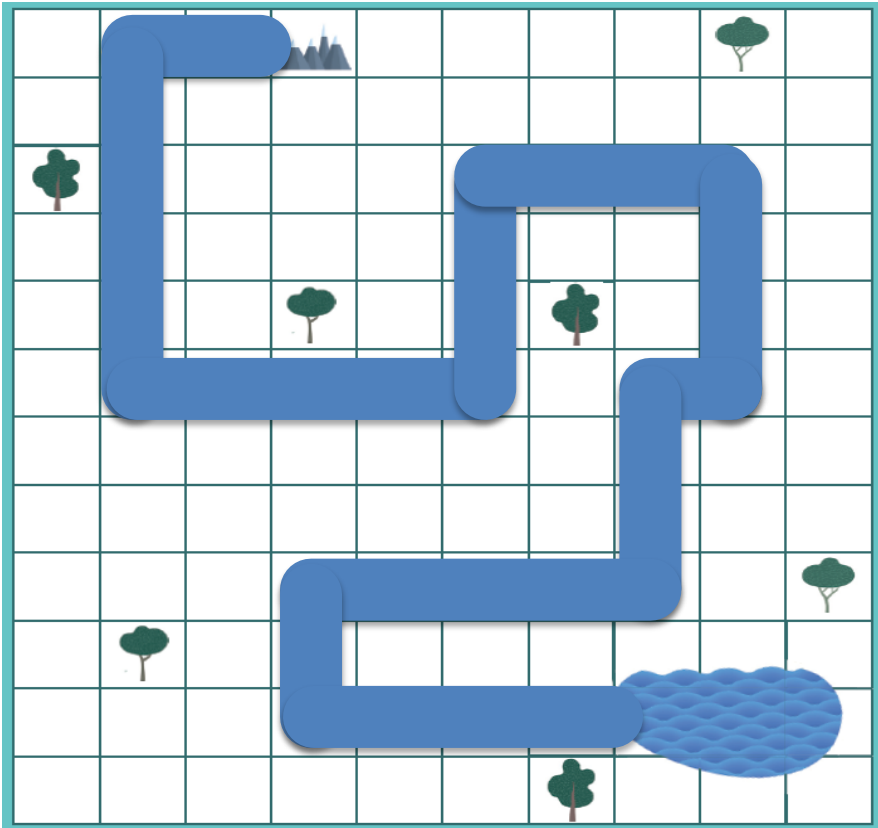
Activity title	Answers
Test your knowledge	<ol style="list-style-type: none"> 1. Seven – red, orange, yellow, green, blue, indigo, violet 2. Green 3. Orange, green, purple 4. Iris 5. Reddish-brown 6. Purple 7. Blue, red, yellow, green 8. Blue 9. Emerald – it is green while the others are red 10. Blue, black, red, yellow, green 11. White Sea, Black Sea, Red Sea and Yellow Sea 12. Yellow 13. Palette 14. Algae producing beta-carotene 15. Slate – it is grey



Part 2: HO HO H2O

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Activity title	Answers
Water quiz	1. Blue whale, 2. floats, 3. true, 4. The Nile River, 5. concentration of water vapour in the air, 6. H2O, 7. ice, 8. 2/3, 9. Gascoyne River, 10. Atlantic Ocean

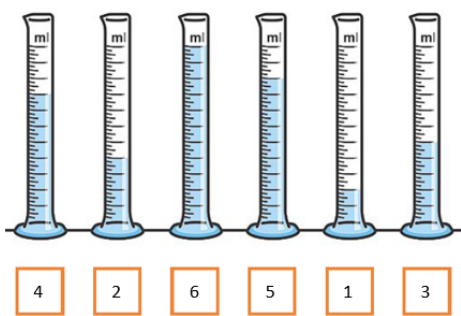
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Activity title	Answers
Map the river	
Classifying creatures	fish: 10 mammals: 4 invertebrates: 10 total: 24

Activity title	Answers
Sea search	<p>1. crab, 2. dolphin, 3. eel, 4. fish, 5. jellyfish, 6. lobster, 7. octopus, 8. seahorse, 9. shark, 10. squid, 11. sea star, 12. stingray, 13. turtle, 14. whale</p> 
Island match	

Activity title	Answers
Brain teaser	<p>On the first trip across the river you should take the galah, leaving the dingo and the seeds safely on the same side. Return to pick up the seeds and transport them across the river. On your way back, take the galah with you, so it is not left alone with the seeds. Drop off the galah and pick up the dingo. Take the dingo to the far side of the river, and leave it with the seeds. Go back to pick up the galah and bring it to the far side of the river, where you have now safely transported the galah, dingo and seeds.</p> <p>Trip 1 there: galah back: nothing</p> <p>Trip 2 there: seeds back: galah</p> <p>Trip 3 there: dingo back: nothing</p> <p>Trip 4 there: galah</p>


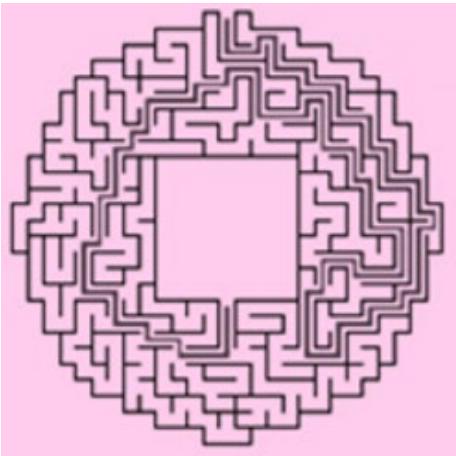
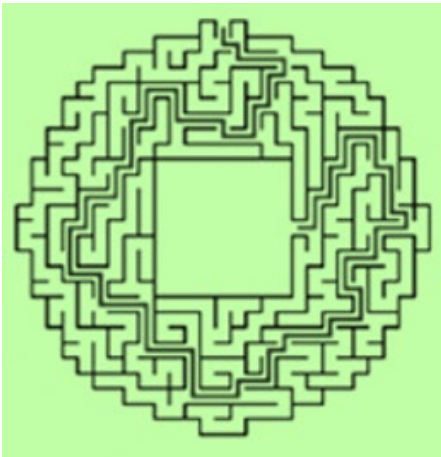
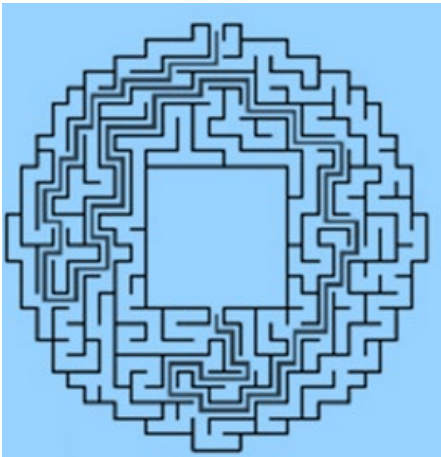
Activity title	Answers
Go with the flow	fountain: 3; basin: 1; hose: 4; bath: 5; hydrant: 2

Activity title	Answers
The clue is in what you see	<p>Across</p> <p>1. icicles, 4. drain, 5. wave, 6. lake, 7. flood, 8. clouds</p> <p>Down</p> <p>2. sprinkler, 3. dew, 4. waterfall</p>
Odd one out	1. Nile, 2. lake, 3. spring, 4. sea, 5. drip, 6. Pacific
More or less?	 <p>The image shows six graduated cylinders with water levels. Below each cylinder is a box with a number: 4, 2, 6, 5, 1, 3. The water levels correspond to the numbers in the boxes: the first cylinder is at 4 ml, the second at 2 ml, the third at 6 ml, the fourth at 5 ml, the fifth at 1 ml, and the sixth at 3 ml.</p>

Activity title	Answers
Close up	1. coral, 2. crocodile skin, 3. algae, 4. fish scales (trout), 5. shell (NZ paua shell), 6. sea urchin
Water ways maze	<p>1 7 2 13 3 16 4 6 5 17</p>

Part 3: Festive free-time fun

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Activity title	Answers
Christmas colour by numbers	
A-maze-ing ornaments	<div></div>

Activity title	Answers
Christmas crossword	

Activity title	Answers
Say what?	

Activity title	Answers
Merry math	
Santa spot-the-difference	

Activity title	Answers
Christmas quiz	1. red and white, 2. mistletoe, 3. A coin, 4. Italy, 5. 23 (one partridge, two turtle doves, three French hens, four calling birds, six geese, seven swans, 6. Jesus Christ, 7. Blitzen, 8. Ebenezer, 9. manger, 10. 12 (1,10,11,12,13,14,15,16,17,18,19,21), 11. The three wise men who visited baby Jesus, 12. The nightmare before Christmas, 13. angel and star, 14. The Polar Express, 15. a magical hat was placed on his head, 16. Norway, 17. Universal Studios, Osaka, Japan, 18. 12 days, 19. Christmas Island, 20. December 24
Emoji songs	I'm dreaming of a white Christmas; Santa baby; Silent night; I saw Mommy kissing Santa Claus; Frosty the snowman; All I want for Christmas is my two front teeth