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INFORMATION FOR SCHOOLS AND TEACHERS

A visit to a round of the Supercars Championship provides fantastic opportunities for students to engage with and get excited about STEM education. In an environment where they can see, hear and smell STEM in action, children can make meaningful connections between the Australian Curriculum and the action on track. This booklet has been designed to be completed by students either independently or collaboratively and can be utilised both on the day or back in the classroom.

Alignment with the Australian Curriculum Year 3 - 4					
Curriculum Area: Science					
Physical Sciences	Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects (AC9S4UO3)				
Curriculum Area: Design and	nd Technologies				
Engineering principles and systems; Materials and technologies specialisations	Describe how forces and the properties of materials affect function in a product or system (AC9TDE4KO2)				
Generating and Designing	Generate and communicate design ideas and decisions using appropriate attributions, technical terms and graphical representation techniques, including using digital tools (AC9TDE4PO2)				
Curriculum Area: Mathematic	S				
Number	Add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator (AC9M3NO3) Recognise and extend the application of place value to tenths and hundredths and use the conventions of decima notation to name and represent decimals (AC9M4NO1) Explain and use the properties of odd and even numbers				
Measurement	Solve problems involving the duration of time including situations involving "am" and "pm" and conversions between units of time (AC9M4MO3) Identify angles as measures of turn and compare angles with right angles in everyday situations (AC9M3MO5)				
Space	Interpret and create two-dimensional representations of familiar environments, locating key landmarks and objects relative to each other (AC9M3SPO2)				
Statistics	Acquire data for categorical and discrete numerical variables to address a question of interest or purpose, using digital tools; represent data using many-to-one pictographs, column graphs and other displays or visualisations; interpret and discuss the information that has been created (AC9M4ST01)				
General Capabilities		Cross Curriculum Priorities			
 Literacy Numeracy Critical and Creative Thinking 	a	• Sustainability			

- Personal and Social Capability

Source: Australian Curriculum Version 9, https://v9.australiancurriculum.edu.au/

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ON TRACK

ESCAPE THE SUPERCARS GARAGE CHALLENGE!

Scenario:

Oh no! You've been locked in a Supercars garage and need to escape. The door to get out is controlled by an eight-digit security keypad. To escape you must solve eight questions to reveal the secret security code and unlock the mechanism.

Rules:

- You can work independently, with a buddy, or in a small group.
- Think carefully to answer each question.
- Write your answer down on the recording sheet.
- Once you have all the numbers for the keypad, check it with your teacher to find out if you can escape the garage!



Fill in the boxes to correctly label this force diagram.

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SUPERCARS CHAMPIONSHIP

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Rearrange the highlighted letters to spell out the first digit in the code.



2 This chart shows the number of race wins for drivers in the 2023 Supercars Championship.

The number of drivers who had 2 or more wins is the second digit in the code.





This table shows the lap times for a Supercars car over six laps of a race. Use the table to answer Questions 3 and 4.

Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Lap 6
52.03	51.57	51.93	52.55	52.16	51.98

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- Sort the lap times into order from fastest to slowest.The lap number of the fastest lap is the third digit in the code.
 - The number lap times that are **even numbers** is the fourth digit in the code.
 - This clock shows the start time of a Supercars race. The race goes for 90 minutes.

The number on the clock that the minute hand would be pointing to at the end of the race is the fifth digit in the code.









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DESIGN YOUR OWN RACETRACK!

A Supercars track is usually around 3km in length. Use the grid to help you get the distance right; one square on the map is equal to 100 meters in real life. Make sure you include features such as pit lanes, start/finish line and grandstands.



Write the grid references for at least 4 of your track features. For example, B3 = grandstand.





SUPERCARS SPOT THE DIFFERENCE!

There are 10 differences to find between the two photos.





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SUPERCARS WORD SEARCH PUZZLE!

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ON TRACK	E	L	U	Ν	Ρ	G	В	0	С	
	С	N	J	Х	Α	Ι	Α	Μ	т	
\times	E	С	G	Μ	к	J	т	Ρ	К	
Ø	z	R	S	Т	S	С	R	L	D	
	н	0	D	F	Ν	U	U	к	Α	
	В	т	В	U	Ζ	Е	т	D	S	
× ×	z	Α	F	Е	н	S	Т	Ν	T	
	L	Т	Μ	L	G	Ρ	G	R	T	
	н	С	к	Ρ	Т	F	Х	G	Q	
	н	Е	L	Μ	Е	Т	R	т	Α	
	н	Ρ	U	к	Y	Α	Ν	К	Α	
	х	S	L	Μ	С	S	Т	L	Т	
	S	J	0	Е	I	Α	W	L	Ρ	
	G	Н	Т	Е	т	Α	R	Е	L	
	E	L	Х	Α	В	Z	S	т	В	
Ĩ∎	Accelerate Brake				Axle Driver					
Θ	Finish Grid Lap Race Track				Flag Harness Pitlane Spectator Tyre					

Barrier Engine Fuel Helmet Podium Speed Wheel

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CAN YOU FIND YOUR WAY THROUGH THE MAZE TO THE FINISH LINE?



Fill in the missing letters to reveal the names of some top Supercars drivers

1 MA_TH_W P_Y_E	6 TIL_D_
² C_M W_T_RS	7 J_M GO_D_N_
з_ IL_ B_OW_	8 _R_C F_EN_Y
4 D_V_D RE_N_L_S	9 C_A_ MO_T_R_
⁵ R_C_I_ S_AN_W_Y	10 JA_K L_ B_OC_





SUPERCARS.COM #REPCOSC () () () ()