



PARKHURST STATE SCHOOL

Maths Challenge Day

Your Task

To work as a team to complete as many individual Maths Challenges as possible to gain as many points as possible. Some challenges make take longer to complete than others and therefore are worth more points. Each task has to be verified once completed by one of our judges.



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<p>Visit the Admin Carpark. What do each of the individual numbers on the number plates on the vehicles total ? (20 points)</p>	<p>Produce a podcast or vodcast to explain a concept for students in your class. The list of concepts is attached. (150 points)</p>	<p>Use newspaper and tape to make a bridge between two chairs that is one metre long and holds a 1kg weight. (75 points)</p>	<p>Recreate and photograph the school logo to at least two metres by two metres on a cement surface. (100 points)</p>	<p>Capture and print ten photographs that represent ten different aspects of Mathematics. (eg; time, shape, mass) (50 points)</p>	<p>What is the distance to the nearest metre between the Yaamba Road fence and the Norman Road fence ? (40 points)</p>
<p>Create a device that measures one minute. A variety of materials can be used. Internet research maybe help ! (250 points)</p>	<p>Measure and mark the distance of one kilometre, identifying the starting and finishing points. (100 points)</p>	<p>From a sheet of cardboard, make a string of at least eight paper dolls joined at the hands (20 points)</p>	<p>Use two dice (IWB dice will be fine) to play ten rounds of the game 'Greedy Pig'. Record the results ! (50 points)</p>	<p>Create a 3D shape using cardboard and staples that has at least thirty flat surfaces. Folding may be needed. (100 points)</p>	<p>Locate and solve five problems hidden throughout the school. There is a list of clues to assist you to find them. (20 points each)</p>
<p>Use newspaper and tape to create a free standing tower that is at least 2.5 metres tall and can hold a tennis ball. (150 points)</p>	<p>Use the box of smarties provided to complete at least five suggested activities. Record your activities on a poster. (100 points)</p>	<p>Create a paper plane that travels a distance of at least 30 metres. Record your best results on video as evidence. (100 points)</p>	<p>Wrap a photocopy paper box in the least possible paper, tying it in a bow using the least possible ribbon. (50 points)</p>	<p>What is the total age of everyone in your class ? What is the average age of everyone in your class ? (20 points)</p>	<p>Select a number from the box in the Office and represent it creatively and visually as a work of art. (150 points)</p>
<p>How many 20 cent coins match the length of the Administration Building ? Explain how you got this answer (50 points)</p>	<p>Solve as many of the mathematical riddles and brain teasers on the sheet provided. Create one of your own. 10 points each)</p>	<p>Use any art materials you have on hand to create a garland one metre in length with four repeated elements. (150 points)</p>	<p>Create a movie, poster or PowerPoint that captures at least ten different shapes within the school grounds. (150 points)</p>	<p>Create a device using any materials available that can travel a distance of ten metres in less than ten seconds. (100 points)</p>	<p>Survey and graph the colours of vehicles during a fifteen minute period as they pass the front of the school. (50 points)</p>
<p>Create a colourful collage 1m by 1m in size using as many different plane shapes as possible. Name it ! (50 points)</p>	<p>Create an IWB Board Game with rules and resources that teaches a Maths concept to a younger class. (100 points)</p>	<p>Conduct a class survey and graph your results to determine the number of red headed students at Parkhurst. (50 points)</p>	<p>Use the Internet to assist you to work out the shortest possible distance from Parkhurst to Melbourne. (150 points)</p>	<p>Create the largest possible Tangram you can and use it to create and label at least five different animal shapes. (100 points)</p>	<p>Create a sculpture using at least five different 3D shapes from junk materials. Give it a creative name. (150 points)</p>

You will need to ...

- Photograph or video where possible each task as evidence for the judges.
- Have each task stamped by a judge as it is completed.
- Keep track of your score on the score sheet included.



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Score Sheet

Task	Description	Evidence (✓)	Score	Judge's Signature
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Total Score