

## Question Booklet - Answers

Q1	John was trying to find out if the presence of light would affect the germination of seeds.
Q2	As the temperature of the water increases, the amount of dissolved oxygen decreases.
Q3	As the speed of wind increases, the rate of water loss by a plant increases.
Q4a	No, Raymond did not. More than one variable in the experiment was changed. The distance between the types of food and the mealworms was not kept the same and it would affect the time taken for the worms to reach their preferred type of food.
Q5a	Jenny should clean the windscreen at the start of each period of the day.
Q5b	This (cleaning the windscreen at the start of each period of the day) ensures that the amount of dust on the windscreen at the start of each period is kept the same and would not affect the appearance of the windscreen at the end of each period of the day.  Thus, there would only be one changed variable, which is the period of the day, that would affect the results.
Q6	He should carry out the experiment for 3 times and take the average number of wooden blocks the paper can withstand for a more reliable result.
Q7	The presence of salt solution causes the rate of growth of the plant to become slower.

## EXPERIMENTAL TECHNIQUES MASTERCLASS

---

Q8	This is to ensure that the rate of growth of the chicken is caused only by the type of special feed and not any other variable in the experiment.
Q9a	Draw the exact diagram with both substances to remove oxygen AND carbon dioxide.
Q9b	The third set-up acts as a control set-up for the experiment to ensure that photosynthesis in plants is caused only by the presence of either oxygen or carbon dioxide and not any other variable in the experiment.