Peripheral Vision and Colour Investigation

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Due date \_\_\_\_\_\_\_

Peripheral vision was and still is essential for human survival. You should answer these questions before planning and carrying out your investigation.

1. What is Peripheral vision?
2. Why was peripheral vision essential to early Homo sapiens?
3. Why is peripheral vision still important to present day Homo sapiens?
4. What is the range of peripheral vision for humans?
5. What are photoreceptors?
6. Where are photoreceptors located in humans?
7. What are the two main types of Photoreceptors in humans, and what does each do?
8. Where is each of these photoreceptors located in the retina?

Aim: To find if there is a difference in the angle at which movement can be detected compared to the angle at which the colour of an object can be detected in the peripheral vision of humans?

Requirements.

1. You will be expected to plan, carry out and write up a scientific report on this topic. You may work in groups of 4. Each student will hand in **their own** final write up. The final report you hand in must contain **all the steps** required for scientific investigation. All **variable**s must be stated. The **sample group must** be described. Any methods used to **reduce error** must also be stated. A raw **data table** and **suitable graph** of results must also be included.
2. There will be a **validation** on the report after the investigation has been handed in. **DURING THE VALIDATION YOU WILL NOT HAVE YOUR COPY OF YOUR EXPERIEMATL WRITE UP OR ANY OTHER REFERENCE MATIERIAL. IT WILL BE DONE UNDER TEST CONDITIONS.**

Time

You will be given one period in class to plan the investigation.

You will be given two periods in class to carry out and collect results for the investigation.

You will be given one week to complete the write up of the investigation in your own time.

Helpful hint. The teacher will provide your group with a Peripheral field of view protractor