

For Assessment Submission in June 201X

GCSE TWENTY FIRST CENTURY SCIENCE FURTHER ADDITIONAL SCIENCE A A194

Practical Investigation

Resolution

CONTROLLED ASSESSMENT INFORMATION FOR CANDIDATES (1)

This assessment will be changed every year. Please check on OCR Interchange that you have the Controlled Assessment material valid for the appropriate assessment session.

- To be issued to candidates at the start of the task.
- Your quality of written communication will be assessed.
- The total number of marks for this Controlled Assessment task is 64.
- This Controlled Assessment task is valid for submission in the June 201X examination series only.
- This document consists of 4 pages. Any blank pages are indicated.

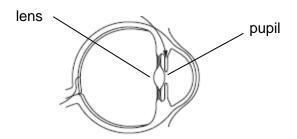
Teachers are responsible for ensuring that assessment is carried out against the Controlled Assessment set for the relevant examination series (detailed above).

Assessment evidence produced that does not reflect the relevant examination series will not be accepted.

Information for candidates

You are going to carry out an investigation into a factor that affects the resolution of the human eye.

Background



Section through a human eye

In dark conditions, the human eye becomes 'dark adjusted' as the pupil in the eye opens up. Astronomers know that they can see fainter objects with dark adjusted eyes, because more light enters the eye. Is this the only benefit to astronomers of dark adjusted eyes?

Before telescopes were invented the resolution of the human eye limited the possible observations of many double stars. The resolution of a lens is how well it can separate two objects. The resolution is when two objects can just be separated. Astronomers usually measure resolution as an angle, but it can be described by a distance from the lens and the gap between the objects. We can measure the resolution of the human eye.

You will choose one factor and investigate this factor's effect on the resolution of the human eye.

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