

OCR A Biology A-level

PAG 05 - Colorimeter

Flashcards

This work by [PMT Education](https://www.pmt.education) is licensed under [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)



What does a colorimeter measure?



What does a colorimeter measure?

Absorbance/transmission.

The paler the solution, the lower the absorbance and higher the transmission, as more light can pass through the sample.



Outline the procedure to find an unknown concentration of reducing sugar.



Outline the procedure to find an unknown concentration of reducing sugar.

1. Carry out a Benedict's test on a range of standard solutions of reducing sugar.
2. Using the colorimeter, measure the percentage transmission for each sample.
3. Plot a graph of transmission against reducing sugar concentration.
4. Carry out a Benedict's test on the unknown solution and measure the transmission using the colorimeter.
5. Plot the transmission on the calibration curve, and read off the x axis (reducing sugar concentration) for the concentration of the unknown solution.



What indicates a higher reducing sugar concentration?



What indicates a higher reducing sugar concentration?

Higher absorbance, lower transmission.

