

CELLS ONLINE WORKSHEET

TOPIC

SEEING NUCLEI

Cells from white onions do not contain pigments. Identifying cell structures can be helped by the use of stains. Onion cells were placed on microscope slides in water (Slide A) or methylene blue stain (Slide B). The cells were viewed under the light microscope at 200x magnification.

SLIDE A



SLIDE B



Download this page, place in your notebook and answer the following questions.

Q1: Label the cell wall, cytoplasm and nucleus of the onion cells.

Q2: From what you can see in these two slides, describe two benefits of using methylene blue stain.

Q3: Methylene blue is able to bind to DNA molecules. Suggest how this information explains one of the effects observed on the onion cells.