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Chemical Microscopy as a Tool and Teaching Method in Chemistry

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CHEMICAL MICROSCOPY AS A TOOL AND TEACHING METHOD IN CHEMISTRY

I. B. Johns

By means of a projection apparatus the application of the methods of chemical microscopy to the teaching of general chemistry were illustrated. The simpler types of equipment necessary were shown. The use of the optical methods were shown in the teaching of such things as allotropy and transition temperatures, formation of stable and unstable double salts, formation of solid solutions, eutectics, etc., tests for purity and tests for identity. The teaching of important optical properties of matter by means of simple polarization apparatus was demonstrated.

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SOME FACTORS AFFECTING THE ACHIEVEMENT IN PHYSICS SUBJECTS OF STUDENTS IN A SURVEY COURSE IN THE PHYSICAL SCIENCES

W. H. Kadesch¹

In the fall and winter quarters of the school year 1937-38 the gains made by about 200 students were examined to find what correlation existed between success in the physics portions of the course and the two following factors: 1) Intelligence rating, and 2) Previous study of physics.

The gains were greatest for the group of highest intelligence and least for that of lowest intelligence. The average gains made by these two groups differed by about 40 per cent.

Those who had credit for a year of high school physics made a somewhat greater gain than those who had not previously studied physics. The difference in this case amounted to about 7 per cent.

During the winter quarter of the year 1938-39 the gains made

1 In collaboration with the Bureau of Research, Iowa State Teachers College. Published by UNI ScholarWorks, 1939₃₇₁