

**CATECHISM OF
AGRICULTURAL
CHEMISTRY AND
GEOLOGY**

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Catechism of agricultural chemistry and geology by James F. W. Johnston

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JAMES F. W. JOHNSTON

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AGRICULTURAL CHEMISTRY
AND
GEOLOGY.

BY

JAMES F. W. JOHNSTON, M.A., F.R.S.S.L. & E.

**HONORARY MEMBER OF THE ROYAL ENGLISH AGRICULTURAL
SOCIETY, AND AUTHOR OF "LECTURES ON
AGRICULTURAL CHEMISTRY AND GEOLOGY."**

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TO
THE SCHOOLMASTERS AND TEACHERS
OF GREAT BRITAIN AND IRELAND.

GENTLEMEN,

HAVING written the present little work with a view to the more speedy improvement of the agriculture of our common country, I take the liberty of dedicating it to you. No class of men possesses in so high a degree the power of promoting an object so important to all. I am anxious, therefore, to secure, not only your willing support, but your cordial co-operation also.

The land from which our crops are raised must be rendered more productive, if food is to be grown *at home* for our increasing population. But the produce can be largely increased only by the application of increased knowledge to the culture of the soil;—and it is the rising generation now under your

care which must possess and apply this knowledge. You can scarcely render a higher service to your country, therefore, than by imparting, along with your other instructions, the rudiments of that kind of knowledge on which its prosperity must so greatly depend. Few of your pupils will then escape from your hands so early as not to have already learned what may enable them on some spot or other in after life, "*to make two blades of grass grow where only one grew before.*"

I have the honour to be,

GENTLEMEN,

Your obedient Servant,

JAMES F. W. JOHNSTON.

EDINBURGH,
1st February 1844.

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THE Author believes that the country teacher who may introduce this little Catechism into his school will find no difficulty in making his elder classes understand the different subjects which are successively adverted to. It will not be necessary to make them commit the very words of each answer to memory, but rather so to make themselves masters of the matter of each, as to be able to express the sense of the answers in words of their own.

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The teacher himself will find further information in the Author's *Elements* and published *Lectures on Agricultural Chemistry and Geology*; and any little apparatus he may require will be readily obtained, at the cost of a few shillings, from Richard Griffin and Co. of Glasgow.