Science.

Religion as an aid to Science.

We assign to the fundamental truths of natural and revealed religion an essential office in scientific reasoning. They are of service, however, rather in teaching us how to ask, than how to answer, questions. They show elements of human knowledge. But potent energetic, and forms his plans on a large scale, and may thus, even when in doubt or error, of discovery greatly expedited. The routes of American Review. scientific research are not paralel, but cross and recross each other at frequent intervals; and there are three separate lines of investigation,

accounted for. Animals and plants would African geography will be solved. have been entered by name in the growing Fanna or Flora of the naturalist, without any attempt to assign them their place or office in Linuwus, the founder of the science of bo- must be constantly cared for-it derives its the economy of creation. Human anatomy tany, was apprenticed to a shoemaker in Swe. thrift from the soil, and sends again to that or physiology might have been complete in its den; but, afterward taken notice of, in conse-soil the sustenance it requires; but this is not details, and yet as to its rationale, have remained in primeval rudeness. But the same David Pareus the elder, who was afterwards a er's care is required, and all his better judgemental process which recognizes the wisdom celebrated professor of theology at Heideburg, ment must be exercised in keeping up this sysof the Creator, dictates the axiom that nothing was at one time apprenticed to a shoemaker, tem of reciprocal benefits that may be realized is made in vain, that all things exist for their several offices and subserve their respective at Gray's-buildings, London, and who was a ends. Science then no longer confines itself to the completion of its catalogue of existences and phenomena; but suspends the collection of facts to make entries on the parallel column of pur-poses and adaptations.

The second route is indicated by the divine benevolence. Under any system but that of Christian theism, science would make only few and casual aggressions upon the domain of apparent evil. Malignant would seem as probable as beneficent ends; and, where the immediate and conspicuous effect was disasterous, the law of design would suggest inquiry simply as to the adaptations and contrivances with reference to that disatrous result. Thus, the volcano, the earthquake, the thunderbolt, would be investigated only as to their resources of destruction, their desolating forces, their potency as ministers of divine wrath and vengeance. But love strikes a new key-note in the harmonies of science. The Christian philosopher grapples with the seeming fiend, till he can strip off the mask that hides an angel's countenance. The fearful energies of versity. nature are forced into the alembic, and tortur ed by successive tests, till they betray their benignant secret, and are exalted to their due place among beneficent agencies. The volcano thus becomes a safety-valve, the lightning a swift winged messenger of health,

The third of these routes has over its gateway the inscription God is one. Polytheistic science contented itself with thinly-peopled groups and imperfect classifications. It traced resemblances of the lowest order, but hardly possessed the idea of analogy. Class was deemed distinct from class; the several kingdoms of nature were regarded as mutually independent; and sameness of plan in different departments was not so much as dreamed of warp with which the ever-varying woof of creation is interwoven. Every argument from scourge of man, consumption. analogy is an enthymene of which the unity of the direction of the truth, suggests probabili- often .- Nothern Farmer. ties, solves doubts, affiliates insulted facts, and arges on the discovery of more extended inductions, higher generalizations, laws of simpler expression and wider embrace. It carries into the circuits of the stars the force that detach- then add half pint beef gall; put it into a botes the apple from its stem. It traces the com- tle and stop it tight. The older it is, the betlations of the laboratory. It brings into the will find immediate relief. same system the elephant and the animacule, the banyan that shelters an army and the speck of mold on the crumbling wall. Impa- is that which teaches us to be content.

tient of differences and numbers, it even blends, harmonizes, unites; nor can it lay down its ministry till it has inscribed on the entire creation the same clear record of the divine unity that stands on the page of revelation. Design, benevolence, unity,—these have become the watchwords of science, the conditions of probability, the germs of theories, the ultimate the cause of his error. He is umbitious and spring frosts destroy rhubarb; but if a six inch us in what direction the truth lies. They furn- as these ideas are as the implements of discov- too often, perhaps, without counting the cost. ish us with tests by which we may discrimi- ery and means of progress, their office is not He buys a large farm and wants to be called and it not only gives the stalks a better colour, nate between the probable and the untenable, construction but verifibation. They do not a "large farmer," without understanding or tell us what we shall find on inquiry, but only considering the true elements that constitute be redeemed from absurdity. They define time where, and on what conditions we shall find a real farmer. He fancies the greatnesss of its within which correct theories must be it. They furnish not the terms of available a that profession, as is too often the common es. injure the plants. Straw should not be lookfound, -conditions which a hypothesis must priori reasoning; but only enable us to sub-timate, to be in proportion to the number of ed upon as a mere litter; it is as good as a satisfy in order to proffer valid claims upon stantiate our inductions of facts, and to pass acres, not, to say cultivated, but embraced frame upon a large scale. What sort of eataour acceptance. By these means, the labour step-wise, by observation and experiment, within the boundaries of his domain. The ble strawberries would we have without straw? of inquiry is greatly abridged, and the progress from lower to higher orders of truths.—North fact is now being spread abroad, that a large

Important Geographical Discovery.

at whose common points of intersection are cal Society in London, it was announced that in the various departments in which he is enfound the fundamental truths of the physical Rev. D. Livingstone, of the London Mission-lengaged. No farmer can realize the full beary society, had discovered another large lake nefits of his profession without adopting a On one of these routes the finger-post of in South Africa, about 200 miles north of Lake thorough system of culture. His success, comdesign points the way. With inadequate views Ngami, which he had recently made known mensurate to his wishes, always depends upon of the divine attributes, we should rest satis- to the world. This new lake contains several the manner in which he prepares his grounds, fied with the salient facts and prima facie as-large islands, and is connected with Ngami plants his seed, and rears his stock. Neither pects of nature, and should readily admit the by a rapid stream called Teage. At the date of these departments, which may be considerexistence of purposeless and objectless forms of the last advices, Mr. Livingstone was pro- ed the cardinal ones of his profession, will take a peep into Convent Garden market at and arrangements. The obliquity of the eclip- ceeding northward. If he carries out his plan take care of themselves. The soil may be rich, tic would have been observed without being of exploration, some important questions in but it needs culture. His seed may be sown,

Eminent Scientific Shoemakers.

quence of his ability was sent to college.--Joseph Prendell, who died some time since by every intelligent and industrious farmermiration of the world.--John Brand the secremeans to complete his studies at Oxford Uni-

Recipe for a Cold.

The following recipe for a cold we can say is truly worth the price of this paper for many years. It was prescribed for us when we were suffering from a cough that seemed as if we were on the brink of consumption; no cessation nor rest, day or night, We took it, and were cured in three days.

The woman who gave the recipe has reared a large family in Oneida county; has seen hundreds suffering from colds and consumption; and she assures us that, in thirty years' experience with the prescription of the ablest physicians, and the experience of her friends before Analogy is but a comprehensive name for the her, she has never heard of or used any other filaments of divine oneness, which form the remedy better than this for colds of every condition; even when on the borders of that

RECIPE, -One tablespoonful of malasses: God is the suppressed member. Analogy in- -two teaspoonfuls castor oil; one do. paregordeed proves nothing; but it always points in ic; one do. spirits camphor. Mix and take

Cure for Sprains or Bruises.

Take two ounces of cast-steel soap, half-pint

The Farm.

The True System of Farming.

Trying to do too much, is a common error into which the farmer often falls. His great eagerness in striving to be rich, is doubtless of all these, unless well tilled, when his labor At a late meeting of the Royal Geographi- is rewarded by ample crops and fair success but it should be in due time, and always on soil well prepared and of a suitable quality for done in a loose or hap-hazard way. The farm-

of literature, Holcroft, the author of The Cri- full returns. If the farmer has but a small rary exposure to the air. tie, and Gifford the founder, and for so many stock, and consequently but a small amount The back or rear wall of the structure, should tary of the Antiquarian Society of London, suinitably till one hundred scres of land, when the work of removal is accomplished.

it productive.

mingling of the world-elements in the manipu- ter .- Bathe the parts affected with it and you cultivate no more land than they can do well tually establish little or nothing. Fifty acres of land for tillage, brought to a In the manure shed the farmer has an assishigh state of cultivation, pays better than one tant of the most valuable kind and which in-The most useful lesson in the school of life hundred run over in the way that many do .- volves but comparatively slight expense .- N. Jefferson Farmer.

Straw as a Covering.

Clean straw is an excellent covering for many things; thousands of sea-kale in frames of under hoops have no other blanching material: and how clean they grow in it! Rhubarb, in winter forcing an early spring, grows beautifully pinky. It is well known that early layer of straw is put on every crown, as the heads put up, they raise the straw with them, and makes them less "stringy," but it keeps the leaves from growing too large. No wind will blow it off, nor will the most intense frosts In summer, every crop, such as gooseberries, farm does not make a man either rich, content- currents, and many other things, should have ed or happy, but on the contrary, the reverse the protection of straw which keeps the sun from drying up the surface, and the surface roots, damp and cool, while all the weeds are kept down.—Market gardeners use it for their frames; it matters not whether for cucumbers, melons or potatoes, straw is their covering, and their crops are more secure than when protected by a thin mat. But some may object to the use of straw, on account of the litter it makes in a garden; but if any of those who object to its use for this reason will just any season, they cannot fail to be struck with the quality of the produce, in the raising of which straw plays an important part. Straw ts also the best of all manure for a strong rethe production of the crop desired. His stock tentive soil, when it is dag in fresh, as it decays and leaves innumerable worm-like holes, which act as drains for the roots. - Gardener's Chronicle.

Protection of Manure.

There can be no doubt that the free and constant exposure of manure to the action of the atmosphere, greatly deteriorates and les-Thorough cultivation and systematic atten-sons its value; and that providing a protecprofound and scientific scholar, pursued tion to all parts of his business is indispensable tion for it while remaining in the yards, or through life the trade of a shoemaker. Hans to a good degree of success. The very cor- before its removal to the land to which it is to Sachs, one of the most famous of the early ner stone to this whole system of farming, is applied, we should save sufficient to remunepoets, was the son of a tailor, and aferwards to do what you do thoroughly-nature will not rate us amply for the cost which such a strucserved an apprenticeship to a shoemaker. be cheated, and never gives full returns to the ture capable of fully subserving this important Benedict Baddouin, one of the most learned half way work that is practised by vastly too purpose would necessarily involve. The promen of the sixteenth century, was a shoemak- many calling themselves farmers. It the land per location of sheds intended for this use, is er, as was likewise his father. He wrote a has been worn, the extent of that exhaustion on the side of the barn, in the vicinity of that reatise on the shoe-making of the ancients, and the food required, must be first consider-portion used as a "tie-up," in order that the which he traced up to the time of Adam him. ed. When ascertained, the full measure of excrements of the animals may be removed to self. To these may be added those ornaments these requirements must be given, to bring out it every morning, and without even a tempo-

years the editor of the Quarterly Review, one of manure to replenish his land, it is obvious be so formed as to admit of its being opened of the most profound scholars and elegant wri- that but a small farm can be supplied with it; to facilitate the removal of the contents, and ters of the age; and Bloomfield, the author of and good judgement at once dictates that to to effect with which the greatest convenience The Farmer's Boy and other poems-all of cultivate properly a large farm, artificial ferti- and despatch, the entire wall should be suswhom were shoemakers, and the pride and ad. lizers must be used if good crops are obtain-pended on stout hinges, in such a way as to ed. And so with the labor, two men connot be swung up, and retained in that position till

and author of several learned works, was the labor of two men and perhaps four, might origionally a shoemaker, but fortunately found be profitably employed on seventy-five acres.

A structure subserving this purpose, and which will last for several years, may be erect-This is the great error in farming. Two ed for a few dollars, doubtless-yet I would men strive to do what four can hardly do, and not advise any one to spend half or two-thirds thus thousands of acres are run over, half til- the amount requisite for the construction of a led, and producing half crops. The land is first rate permanent fabric, in putting up a run over till worn out, sustaining year after cheap one which will but partially meet the year the unatural tax, till its energies are en-necessities of the case, and be ready for repairs, tirely exhausted and it fails to yield even a or tumble into ruins, almost as soon as it is up. feeble crop, because its life is worn out. Much It should ever be an object with the farmer to of the soil in Virginia and other Southern Sta- do well and thoroughly whatever he attempts. tes is a type of this: Thousands of acres are The old adage—" Work well done, is twice lying entirely useless and exhausted, and will done," conveys an important lesson, to which ever remain so, till the fiast elements of its it would be well for farmers to attend, and espower are returned to it. This process is fast pecially in providing those permanent fixtures going on in many of the Western States. The and conveniences which necessarily involve soil is treated like an inexhaustible mine; the the expenditure of time and cash. The ecctillers crying give, give, give! till in a few nomy of manure is beginning to be contemyears it will have nothing to give. The boast plated as a subject of much practical importof the West is, large tarms and large fields of ance by the farming classes generally and we grain; plow, sow, and reap, is the business of trust the day is rapidly advancing, and is even western farmers, drawing out the very life of now by no means distant, when judicious and the soil, and sending away in the heavy exports efficient measures will be adopted universally that are constantly going onward, without re- for the protection of that article upon the asturning to the soil the food it requires to make sistance of which the farmer relies for the profit of his soil and crops. When it is reflected The light that is being spread abroad on that in the present condition of our agriculture, this subject is beginning to correct this pracellittle can be accomplished without manure, it tice to some extent, but in most instances will certainly be thought a matter of no trivial very little is returned to the soil to keep of insignificant consequence so to manage and it alive till after several years of contin-economize the contents of the stercorary as to alcohol or spirits of wine, mix them together, ual cropping, it manifests signs of exhaustion, ensure the availability of all its wealth. With and ultimate barrenness. When tillers of the a sufficiency of manure, we may laugh at the sail understand their true interests, they will sterility of nature: but without it we can vir-

E. Cultivator.