cessible by mutual effort to give mon said, "Get wisdom, get know- pends upon the mode of grinding and appreciate individually, what lege, but with all thy getting, get or crushing is known by the whole collectively; understanding." agreeing to observe such rules and We have faith in the opening up of is 15, and it is not waste, nor useregulations as may be adopted to boundless immensity as to treasures less, as we may see from the followaccomplish the desired end. Im- of knowledge by the revelations of ing reliable analyses of six speciprovement also is well defined by God; and no better rule can I urge mens of rye, namely; eil, 5; salts, the same lexicographer as the act of upon the attention of these classes 7; water, 13; nitrogen material, 19; making profitable use of anything, than that of Paul the earnest apos- husk and starch 55. Bran, then, is also a practical application of the tle to the Gentiles, himself educat- not a pure # fibrous innutritious doctrines and principles of a dis- ed, brought up at the feet of Gama- and indigestible material. This course or progress toward what is liel, and which brings into full statement shows that oil, salt and better, non nee of thungars lessing

ment Association, then, are to be the march of improvement. Thus in starch, or the inner portion of the subjects of improvement, en- he addressed the earnest followers the seed. joying such facilities of intercourse of Christ, seeking after truth: 'Add The constituents of all grains, as will operate favorably to en- to your faith, virtue, to virtue though much the same in kind, hance their usefulness; for all are knowledge, to knowledge temper- vary in different varieties, dependalike mutually obligated to give ance, to temperance patience, to ing upon the kind, the climate, the and receive instruction, and all these brotherly kindness, and to all nature of the soil, the condition of equally assume the responsibility to of these, charity, which is, indeed, the air in which they grow. We cherish advancement in knowledge the greatest gift of all. can only give an average per centof common things. Every member May the blessing of the Almighty age of these several constituents in therefore should aim to secure crown your efforts and labors in the entire grain; namely: Bran, 2 knowledge for himself of what is mutual improvement, with abund-per cent.; gum, 5; sugar, 8; water, known in the Association by strict ant success, is the earnest prayer of 11; gluten, 12; starch, 62. Of these attention to the rules thereof. Your fellow-laborer in the gos- constituents the most nutritious

In order to succeed, make a begin- | pel, ning to acquire knowledge of fir-t principles in as many branches of the arts as time, circumstances and the necessities of the case will admit. Can we read? If not, let us begin at once, and at the beginning of that important and fundamental Our health depends largely in tough and fibrous than in others. clear type, and containing nearly 500 pag branch of education make some the food we eat. Anything that The exact condition of gluten in progress, every day, and assure our- relates to the hygienic influences any grain depends upon the soil in selves that we are learning to read, of wheat, the prince of grains, is Can we write? If not, let us prac- of its kernels, the character of its tice the art of writing, and, for constituents, their action upon the that purpose, avail ourselves of the various tissues of the human frame, but especially in grains, that may valuable, though cheap, copies pub- and their correspondence to the lessen the quantity, tenacity and lished, containing elementary or constituents of the animal tissues, strength of gluten. Its tenacity first principles, and although we are well worth more than a passing and strength may be found near may progress but little daily, let | notice. that progress be effectual. In con- The formation of any grain is in- by forming a paste with cold water nection with the above, let us learn | teresting as showing its peculiar | and observing its adhesiveness or to spell and institute such exercises fitness to the needs of man. The tenacity. Paste made from good in the art of spelling as would be, protection its husk affords its inner flour will swell to four times its orwhile very profitable, really enter- treasure indicates the design and dinary volumne when the flour is taining pastimes in the family or purpose. The fact that the oil dry; while the bad flour or that social circles generally, at all suita- within the husks protects the gluble times. All of which depart- ten, starch and salts from the inments harmonize to promote use- fluence of moisture, and keeps a paste sufficient to quarter fill a

of mental culture and gradual de- the Creator's goodness and persisvelopment comes, among the fore- tent love for all the objects of his most, if not indeed the first, hand. Grammar, which is the art of The husk envelope varies in its speaking and writing with propri- properties. In some wheat it is ety, or, as rendered by some gram- thin and smooth; in others thick marians, the art of speaking and and rough. In some it is dark, in writing correctly; others, again, others light; in some tough, and in | in proportion to the percentage of have it, as the art of speaking and others brittle. In some it is adwriting according to established herent to the kernel, in others it usage (to which might be added) flakes off under the influence of among the best speakers and writ- the burrs or mill-stones. These ers. In the same connection comes | varying Arithmetic, or the art of computa- the value of the different tion by figures, the ability to count kinds of grain. The constituents from one or unity to an endless in- of the grain, gluten, starch, oil and finity! a never ending source of salts have a special position in its progress and research; until, like substance, still they are somewhat the Great Supreme, we count the distributed throughout the mass. stars, their relative magnitudes and Directly below the husk is a layer distances; or the infinitesimal sands of a darkish matter, harder than upon the sea shore. With Mathe- the more central parts, and thus matics and Algebra, to know and | not so easily reduced to powder. understand the signs and symbols | This is the gluten adhering to the which, without close application husks, containing oil enclosed in and research, are to us all a myste- minute cells. Within this crust of ry and a myth. Also Geography, oil and gluten is the starch, more Chemistry, the analyses of all these | brittle in its texture, whiter in its or the science of reducing every or- color, more easily pulverized than ganized theory or device into its | the constituents encircling it. It is component parts or elementary not pure starch, but it forms the principles.

of access to these attainments than | mingled in the body of the grain, through a mutual improvement as- and yet each exists in excess in sociation, let us prosecute our stu- certain parts already indicated. dies with the best books, make Such is the general anatomy of careful use of our spare moments, wheat and other grains. But we and avail ourselves of every facility cannot pass a more minute descripfor improvement; that we, the sons | tion of so wonderful a gift of God to of Zion, may climb the Tree of man. The outer coat or husk of Knowledge, the very leaves of grain consists of three layers of which, are for the healing of the cells. Under these is a single laynations, and with eager grasp, er of cells. Under this single layer

ingly forth on every branch. this, we must press forward in the filling the inner portion of the constant exercise of those mental seed. An important point is qualities with which we are, every that these layers are able one of us, endowed in a greater or to resist the pulverizing influless degree. We may indeed pause, ence of grinding in various and while we pause, reflect upon degrees. The bran is tough and fithe limits of the little steps by brous, and so is least pulverized, which we can reach the giddy The gluten, adhering to the bran, heights of skill, honor, glory and is more finely pulverized, while the renown, which appear in view, and brittle starch, the largest constiturealize that it is only by slow de- ent of the grain, is most completely ports. grees, step by step, little by little. crushed and reduced to the finest But, in the lapse of ages, these be- dust. In this way the different come the mighty whole, and thus constituents of grain are easily sethe most enduring monuments of parated by using sieves of different antiquity still appear as triumphs degrees of fineness, forming four or of immortal skill. To become fa- more grades that vary not only in miliar with which, we are led intu- fineness, but in composition and itively to the threshold of history, nutritious and hygienic properties. another department for the eager From what we have already said, student, and there cull from the re- the reader may infer that the quancords of ages, the imperishable tity of bran in different kinds of

development the latent inspiration nitrogenous, and so nutritious, mat-Members of a Mutual Improve- of all true and enuring progress on ter is more abundant in bran than

WM. MORRISON.

WHEAT onon a noits

just so much, and that much well. worth considering. The formation

fulness and attainment in any de- these constituents in a condition tumbler. Observe its increase in gree of excellence and efficiency. fit for food through long periods of In the further immediate pursuit time, is a strong demonstration of

circumstances whitest and finest flour. These And, if we have no higher source | several constituents are somewhat pluck the fruit which hangs invit- is another layer containing gluten. These layers form the bran. Be-Fellow students, to accomplish low them are layers of starch grains,

words which have immortalized the wheat and other grains varies. The mighty dead of former ages; Solo- amount of gluten adhering to it de- l

LICERSIE Alegeringent, in con . Louis 100 . Liceria, Language Liceria

The average per centage of bran

and digestible is gluten, a nitrogen composite, or chemical combination, very largely concerned in Frophet, fer the building up of the Kin forming all animal tissues. Gluten in different grains not only varies in its average amount, but in its qualities. In some wheat it is more which it grows, the moisture of the of additions made the sections have been air and the drainage it may have received in harvesting. Many contingencies exist in raising any crop, enough for all practical purposes, which contains but a small amount of gluten swells much less. Make volume. In fermenting, good flour suggests the peculiar smell of hot bread; while bad often yields an odor unpleasant to the sense of address smell.

Vermicelli and macaroni are made from wheaten paste, that contains a large amount of gluten. So these articles of diet are nutritious gluten they contain. The wheat of warm climates contains more gluten than that of cold. Good macaroni should, then, be made from southern flour. If it be good, or contains a proper amount of gluten, should retain its given form and not fall to pieces nor run into a shapeless mass.

When the grains of wheat are first formed, their coutents are milky. As they ripen, the water in the milk evaporates and leaves a hard mass or solid vegetable milk. If excessive heat of the sun occurs as the grains are ripening and hardening, they shrivel. And we may see that generally, the form, volume, and value of a wheat kernel in which it grows, the temperature and moisture of the air in its early growth and especially in its ripening season.

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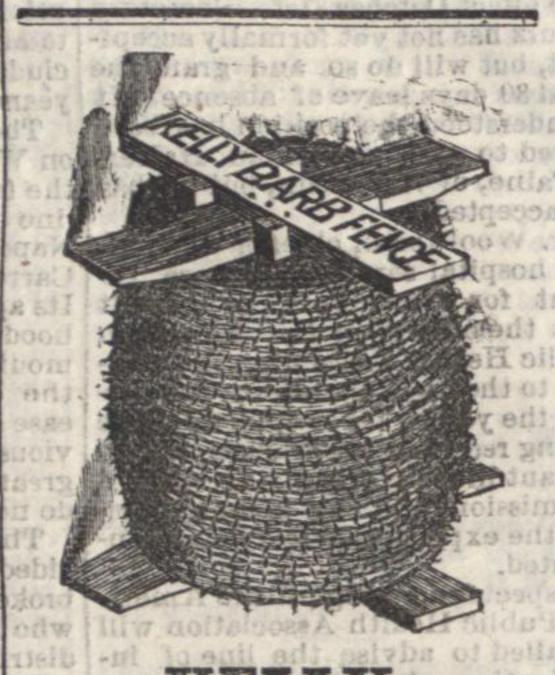
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