on the largest scale in more than six thousand public advantages of beauty, durability, economy, &c., has no of public works, the bank of France, the prefecture of conquest of science. police, the railroad depots, &c., demonstrate, or rather, establish beyond question, the following facts :

First: The new colours with their base of zinc, man-

ganese, &c., are not injurious to the health of the workmen employed in their manufacture, the painters who use them, or the occupants of freshly painted houses. In the establishment of Mr. Leclaire an average of a dozen workmen were formerly attacked with painters' cholic yearly, and some, more unfortunate, suffered five of very great merit.) or six attacks of this dreadful disease. Since the introduction of the oxyde of zinc and the oil prepared with

everything which decomposes stains them.

when compared with those having their bases in lead or and fierce; these often used to kill the beasts which peocopper, possess a preeminence as marked as the white at once richer, brighter, and fresher in tone.

money is obtained.

Experience has fully proved that if we compare the quantity of white lead with the white of zinc, or the quantities of oil necessary to prepare these two sub-stances, the advantage of at least thirty per cent., is in favour of the white of zinc, which covers better with equal weight.

The application of the white zinc is as easy and re-

quires no particular care.

The white of zinc dries in a shorter time.

There is then, economy in the cost of the primary material; economy in the quantity necessary to produce a given effect; economy, incalculable, in the durability; and economy, no less remarkable, in the quality of being easily cleaned and restored to original purity with fresh water!

We have spoken freely and earnestly on this subject, because, first, it is a question concerning one of the lar jest and most important branches of industry in the civilized world; and, secondly, a brilliant scientific dis-covery successfully introduced by long years of labour to make the time pleasant both to old and young, and constant sacrifice which were necessary to triumph over culpable indifference, blind routine and irrational and the time comes for reading and learning, then I hope opposition.

Now the truth begins to triumph. We have seen

and private establishments—the departments of war and dangerous effect in its preparation or use. It is a great

We learn that Mr. Leclaire has received the decoration of the Legion of Honor. Never was a distinction

more gloriously and meritoriously earned.

GRANDFATHER WHITEHEAD'S

LECTURES TO LITTLE-FOLK.

(From the Family Friend, a little English monthly periodical

LECTURE I.

manganese, not a single workman has been poisoned.

Second: The new colours are infinitely more solid and durable than the old: they are not affected by sullove knowledge and virtue, because thereby you will be plurous vapours; they preserve, everywhere and almade happy and prosperous in your future lives. I hope ways, their primitive tints, even in sulphuric bath rooms; to come to you frequently and to tell you, upon each ocways, their primitive tints, even in suipnuric path rooms; to come to you nequently and to ten you, upon each octained they have a property still more precious, namely: casion, something that it will please you much to under-When they are cleaned by simple washing they resume stand. In these days, it is very bad for any one to be their original brightness; while the old colours, when without knowledge. There was a time when there were washed even with acids, which dissolve a portion, no books, no paper, no pens, or ink; things now brought remain dull and spotted, and for the simple reason that to light were then unknown; people used to believe in erything which decomposes stains them. false gods, worshipped wooden images, and were in great Thurd: The white of zinc is so much superior to the dread of wicked spirits, which they supposed to exist. white of lead, that when the framing of a panel is paint-| They had no comfortable houses wherein to dwell; no ed with the best white lead and the centre with zinc glass to admit the light, yet shut out the wind and rain; white, the contrast makes the framing look yellow and they had no proper fire-places, with chimneys to carry grey and offensive to the eye. In such a comparison away the smoke, but used to live more in the style of the even the Venetian white loses its purity. The white gipsey tribes, roaming from place to place, having no one lead appears to absorb the light, while the white of zinc dear spot to call home. They were in danger of wild reflects it completely, and is brilliant and transparent. beasts—in our country there were many wolves, which Well! All the new colours invented by Mr. Leclaire, are animals, something like dogs, but very wild, hungry, ple desired to keep for food, and sometimes they used to of zinc does over that of the white of lead. They are kill and eat the people themselves. The people, too, at once richer, brighter, and fresher in tone. It is quite were rude, and very cruel, and instead of loving one were rude, and very cruel, and instead of loving one impossible, with the white of lead and the oil prepared another, they used to quarrel, fight, and kill each other; with litharge, to obtain the delicate and tender tints and they used to do this because they were ignorant; which the white of zinc and the oil prepared with manganese give with great facility and in infinite variety.

Fourth: an important consideration.—By the employment of the new colours a great economy of time and voured by wild animals. And although there are some wicked men now, who do their fellow-creatures wrong, they are comparatively very few, and are ignorant and idle men, something like those of old; they do not love the knowledge and virtue which I wish you to prize, and therefore they are disobedient to God, and bad towards their fellow-creatures.

I am not intending to give you a long lecture now; but merely a few words of introduction and promise as to what your Grandfather Whitehead hopes to do in the future. I know that this is your holiday time—that you love your holidays, and ought to have them. I know how much you delight to come home with your parents -to enjoy your family parties-to meet with your uncles and aunts, and cousins and companions, and talk about the merry Christmas and the New Year, and to sit by the fireside and tell anecdotes, and ask riddles, and try puzzles, and enjoy the fun of amusing conversation cards! And then the nice things which are about at Christmas!—the cakes—the puddings—the roast-beef, and the geese! These are all welcome things, and serve

But hereafter, when the pudding and the cake are gone, to tell you many things on what is called Science, and to explain to you how many wonderful inventions have more than sixty certificates of our most ronowned paints been brought about, and how they are carried on. In ers and architects, who have fully tested the discovery the old times the triple living in different places could of Mr. Leclaire, and confirm all his assertions respecting seldom see or hear from each other; and if they travelled its advantages. In place of a deadly substance there is fifty miles it took them a long time of weary and often given to the world a new material, which with the dangerous exertion. But w, the wonderful inventions