VISUALISED NUMERALS

I HAVE lately been occupied in eliciting the degree and manner in which different persons possess the power of visualising numbers in their minds, and in collecting a long and growing store of materials, partly on their own account, partly for the benefit of my students, but principally by means of written replies to a printed list of questions that I am distributing. The subject has interested me in many different ways, and I should be glad if the present memoir upon one particular branch of it should give me an opportunity to convey to the scientific community the information which I have collected.

The various ways in which numbers are visualised is a subject which in itself is one that is curious and complete in itself. In my respect in data to it is already sufficiently numerous to be worth recording, and it will serve to show that parallel results admit of being arrived at in other directions.

I may begin with one or two general experiences. I have been astonished to find how superior women usually are to men in the manipulation of mental imagery in their powers of introspection. Though I have long-departed returns from many men, I have found better, and even less often, the highest general ability, quite unable for some time to take in the meaning of such simple quantities as these. "Think of some definite object—say your best friend's table. Let it come down to it this morning, and consider carefully the picture that rises before your mind's eye. Is the image dim, or fairly clear? Is its brightness comparable to that of the actual scene, vivid and clear? Also, how vivid does it seem in comparison to the color, quite distinct and natural, &c. &c." On the other hand, I find the attention of women, especially with a fair ability, to be almost instaneously engaged.

You can try to have a vivid mental image of a year of your life. To begin, you will be able to estimate any significant event in an equal or less important event in a year of your life. I don't find any particular tendency to exaggeration in this matter either among the sexes of the persons I have observed on this subject. I have observed them to be that the former usually show an unexpected amount of intelligence, while many of the latter have a very poor memory. The mental difference between the sexes seems wider in the vividness of their mental imagery, than in respect to any other combination of mental faculties of which I am cognisant.

Another general experience is that the power of seeing vivid images in the mind's eye has little connection with high general ability or any other obvious characteristic, that at present I am often puzzled to guess from my general disregard of the subject, which is the subject of inquiry to have the faculty for or not. I have instances in which the highest ability is accompanied by a number of this case, and where the faculty appears to be most wholly absent. It is not possessed by all artists, or by those who possess the highest degree of any other kind of ability. It is not possessed by all mechanics, nor by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disregard of the fact that others also think in the same way. It is not possessed by all men, or by all men of science. It is certainly not possessed by all metaphysicians, who are too apt to let the power of the mind's eye be maintained by others, based solely on the experiences of their own special ways of thinking, in total disreg...
ON A MODE OF EXPLAINING THE TRANSVIBRATIONS OF MATTER.

THERE has been considerable difficulty in arriving at a satisfactory conception of the means by which the transverse vibrations produced by the heat of the sun are communicated to the earth. In the attempt to surmount this difficulty some have gone so far as to conjecture that the atmosphere is a sort of. fluid:; for it was imagined that nothing but such a structure could propagate transverse vibrations at the velocity of sound. But this appears to me, taking the subject in a general view, as a mere illusion of our senses; for I am of opinion that this `atmosphere' has no existence of its own.

My object here is to direct attention more especially to a subject which, though not of such general importance as that above mentioned, is yet of equal interest, and which is not attended with the same obscurity. It is the transverse propagation of heat, and the manner of its communication from the sun to the earth, which is the subject of this paper.

The transverse propagation of heat is a subject of considerable importance, and has been the subject of many investigations. It has been shown that the transverse vibrations produced by the heat of the sun are communicated to the earth by means of a medium, which is called the atmosphere, and which is supposed to be a sort of fluid.