periodical. Among the plates is a coloured representation of the deerskin mantle, ornamented with-shell work, recorded to have belonged to the Virginian Chief, Powhattan. Dr. E. B. Tylor contributce, in English, an account of this interesting object, which forms one of the treasures of the Ashmolean. It belongs to the Tradescant collection, which was the nucleus of the museum of I :lias Ashatole. It scems that there were in use among the Powhattans three kinds of mantles, viz. of dressed skins embroidered with beads (including shells), of furs, and of feather work. In the original collection of Tradescant there were specimens of all three kinds. Of these, the shell. embruidered mantle alone remain:. It measures about 2.2 m . in length by 1.6 m . in width. The two deersinins forming it are joined down the middle; no hair remains. The ortamemal design consists of an mpright human figure in the middle, divided by the seam; a pair of animals; thirty-two spirally formed rounds (two in the lowest line have lost their shells) ; and the remains of some work in the right lower comer. Dr. Tylursays that the decorative shell-work is of a kind well kn wn in America. The shells used are .Marsinella: so far as Mr. Edgar A. Smith is able to identify them in their present weathered state, $M$. niows. Among the other contents of the number are some notes, in German, on the ethnography of Mexico, by Car! Breker, and an attempt, by $M$ Messikonmer, to describe some elements of what may have been th.e intellectual life of the inhabitants of ancient lake-dwellings.

IN the new number of the Transactions of the Leicester Literary and Philosophical Society, there is a useful and interesting paper, by Mr. Montagu Browne, Curator of the Town Museum, Leicester, on "Evidences of the Antiquity of Man in Leicestershire." He begins with objects of bone and horn, then examines the remains of pottery, and finally deals with articles in bronze and stone. Palaolithi= implements have not yet been discovered in I.eicestershire, but Mr. Evans, in a passage quoted by Mr. Browne, is of opinion that they may be found there. "It is by no means inpossible," writes Mr. Evans, "that you may succeed in finding them. It is a little far north, but I doubt whether the glaciers persisted so long in that part of England as they did in the Lake District, and in Wales."

Messrs. Casselit anb Co. are issuing, in monthly parts, a popular edition of "The Story of the Ileavens," by Sir kobert S. Ball, the Royal Astronomer of Ireland. The work, which is well printed on good paper, will be: completed in eighteen parts. With Part I., which we have just received, a star map, is given.
THE "Educational A inual" for 1S80, compiled by Fdwart Johnson, has been issued. Messrs. (;. Phiiip and son are the publishers. The work is designed to place within reach of the general public a concise summary of authentic information, drawn from official or other trustworthy sources, relative :o primary and secondary education, in a form convenient for reference. Information relating to training colleges for teachers and teachers' associations has been included.
A bоok, entited "Rides and Studies in the Canary INands," by Mr. Charles Fidwardes, has just isen published 'Fisher Unwin). The author quaintly explains that it is whiten "for the entertainment both of those who visit the Canary Islands and those who do not." A considerable part of the book has already appeared in the form of articles in magazines and journals. Those who have already read these fragments will not object to find them again among Mr Edwardes's lively and pleasant sketches.
We have received a diary called "The Perennial Diary," which a good many people may find useful. It is not intended to supersede ordinary diaries. Each page is devoted to a single day of the year, and events occurving on that day in different
years may al ) be entered on the same page. The volume is issued by Mr. John Heywood, of Manchester and London.

The: Frec Libraric; Committee of Manchester are able to give, in their thirty-sixih Annual Repont, a most favourable account of all departments of the institutions under their charge. The number of the buildings in which the work of the Committee is carried on has been increased to ten by the establishment of the Hyde Road Reading Room, which was opened some time ago by the Mayor, in the presence of a large and enthusiastic meeting of the inhabitants of the district. In the course of the last twelve months the number of readers at the various libraries and reading-rooms (i.c. the number of visits they have made) reached an aggregate of nearly four millions and a half, or about a quarter of a million more than in the previous year. There has been an increase also in the number of books read. The number used for home reading and fer perusal in the reading-rooms has been $1,606,874$, against $1,462,028$ volumes read in the preceding twelve months. The daily average of volumes used in all the Libraries was 4464 .

In the letter on "Nose-blackening as preventive of Snowblindness," by Mr. A. I. Wuffield (vol. xxxviii. p. 172), for "New Lealand" read "New Irelansl."

The additions to the Zoological Society's (iardens during the past week include a Common Kestrel (Timnunculus a'audarius) captured at sea, presented by Mr. Thomas Austin ; a Pyxis Tortoise (1rxis arachnoides) from I)urban, Natal, presented by Culonel J. H. Bowker, F.I.s.; a Rat-tailed Snake (Trigonocephalus lantcolatus) from St. Lucia, W.I, presented by the West Indian Natural History: Exploration Committee ; two Concavecasqued Itornbills (Bucirys hici,nis) from India, deposited; a - --. Squirrel (Sciutrus sp. inc.) from Burmah, two Ceylonese Hanging larrakets (Loriculus asiaticus) from Ceylon, purchased.

## OUR ASTRONOMICAL COLUMN.

I) etection of New Neblef: by Photor;raphy.-Prof. Pickering gives a bricf account, in No. 6 of the Annals of Harvard College Observatory, vol. xviii., of some experiments he has recently conducted as to the advantages of a photographic doublet over an ordinary astronomical object-glass for astronomical work, and especially in photographing nehule. A number of plates were exposed upon the region of Urion, the instrument used being the Bache telesc.ppe, which has a photographic doublet with an aperture of 8 inches and a focal length of 44 inches : each plate covered a region $10^{\circ}$ square, the definition being good within $33^{\circ}$ of the centre of the plate. The result of the experiments was the detcetion of twelve new nebula ; fourteen nebulx werescen on the photographs that were also given in Dreyer's Catalosue, and four nebulx in the Catalogue were not repre. sented on the plates. A similar proportion of discovery over the entire sky would mean some 4000 or 5000 new nebulx, and 400 plates would be sufficient for a complete survey, provided here wa; no overlapping, and no plates proved defective.

Comets fate and barnari), October 30. - The following ephemeris for Faje's comet is in continuation of that given in N゙ATURE (vol, xxxix. 1. 186). The ephemeris for Barnard's comet is by Herr Spitaler (Astr. Nach., No. 2871). Both are for Berlin midnight :---


Both comets are slowly diminishing in brightness.

