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[No. 14

NATURAL HISTORY.

THE CAMELEON.

The truth, however, is, that he can go a the appearance of a little silver-hued ball. long time without food, and, when he does according to the different lights the animal called the Morning-Star.



ASTRONOMY.

round the Sun, which is placed in the com- astronomer. mon centre of their motion. 1. Mercury; ell the others, whose orbits are beyond that months. of the earth, are called superior, or exterior planets.

cept that which they receive from the Sun. 1000 times larger than our Earth, he has 4 whose fields, by the gentle dew. and the

cury. It is 36 millions of miles distant from periods. the Sun, round which it revolves in 88 days: The Cameleon is a sort of lizard, about its diameter, or thickness, is about 3000 tem is Saturn, which is nearly 900 millions ten inches long, with a tail of nearly the miles. This planer can seldom be seen by of miles from the sun, round which it rename length. He is to be found principally the naked eye, because it is so near the Sun volves in about 30 years of our time; the in India, Africa, and Arabia. It has often that it is lost in its overpowering brightness; diameter of this planet is about 67,000 miles, been said that the Cameleon lived upon air, but when it is visible, which is a little time I' is attended by no fewer than 7 moons to not having been seen to take any other food. before sun-rise, or after sun-set—it presents "cheer the gloom of night." The unin-

eat, his food is small flies and insects. He is sixty millions of miles distant from the Sun, ing upon one of the most stupendous of the fixes his eyes upon them, and then darts his round which she revolves in 225 days. She planets, when viewed through a telescope. very long tongue at them, and draws them it nearly as large as our Earth. Venus is it appears surrounded by a bright double into his mouth, so that he might appear to the most beautiful Star in the heavens; belt, which, at certain times, gives it a be merely drawing in the air. It has been and sometimes shines so bright, as to give very beautiful appearance. said, too, that this creature changes its co-shadows to houses, trees, &c. When she lour to green, blue and black, or whatever appears in the West, after sun-set, she is it pleases. This is not true, though there called the Evening-Star; and when she is are some variations in the shades of colour seen in the East, towards day-break she is

> our Earth, accompanied by the Moon. hours, and thereby causes day and night. It through the plans, and its torrents over the goes round the Sun in a year, and by this cliffs, add to the richness and the beauty of motion we have the seasons, which are called the least ascape. Look into a factory standwhen you spin your top, it runs round in a groaning and rustling of the wheels, the circle, and also moves round its axis—the clattering of shuttles, and the buz of spinformer resembles the Earth's yearly motion, dles, which, under the direction of their fair and the latter its daily motion. The Earth attendants, are supplying myriads of fair puris an object of such great importance to us, chasers with fabrics from the cotton-plant, and so much is known respecting it, that a the sheep, and the silk-worm. further description of it must be reserved for a future number.

because it attends on the earth, and travels of water, as they break away from the clouds Astronomy is the science which treats of ingus light in the absence of the Sun, in sub- to allay the scorching heat of a summer's the heavenly bodies, their motions, periods, dividing the year into months, regulating sun!—And the autumn's frost, how beautieclipses, magnitude, &c. In the diagram the ebb and flow of the sea, and the various fully it bedecks the trees, the shrubs, and above, the orbits of the planets are repre- phenomena she presents to our notice, ren- the grass; though it strips them of their sented in the order in which they move ders her an object of much interest to the summer's verdure, and warns them that they

At a great distance beyond Mars, revolves

The nearest Planet to the Sun, is Mer- moons, which move round him in certain

The most remarkable planet in our sysformed eye imagines not, when it is directed The Planet next to Mercury is Venus, she to this little speck of light, that it is look-

COMMON THINGS.

No. 8.—WATER.

How common, and yet how beautiful and The third planet in order from the sun is how pure, is a drop of water! See it, as it issues from the rock to supply the spring and The earth turns round upon its axis in 24 the stream below. See how its meanderings Spring, Summer, Autumn, and Winter .- ing by a water-fall, in which every drop is The motion of the Earth is not unlike a top, faithful to perform its part, and hear the

Is any one so insensible as not to admire the splendor of the rainbow, or so ignorant The Moon is called a secondary planet, as not to know that it is produced by drops round it in the space of a month.—The di- which had confined them, and are making a ameter of the Moon is computed to be about quick visit to our earth, to renew its ver-2,160 miles. The connection of the Moon dure and increase its animation? How with our Earth, her services in often afford- useful is the gentle dew in its nightly visits must soon receive the bulletings of the win-Mars occupies the orbit next to that of ter's tempest. This is but water, which has 2. Venus; 3. the Earth, with her Moon; the earth, as appears from the figure where given up its transparency for its beautiful 4. Mars; 5. Jupiter, with four moons; 6. its name is inserted. The diameter of Mars whiteness, and its elegant crystals. The Saturn, with seven moons. -The two planets is about 5900 miles, his distance from the snow, too-what is that but the same pure whose orbits are within that of the earth, sun, about 144 millions of miles, round drops thrown into crystals by winter's icy are termed inferior, or interior planets; and which it revolves in about 1 year and 11 hand. And does not the first summer's sun return them to the same limpid drops?

Whose heart ought not to overflow with Jupiter. He is about 490 millions of miles gratitude to the abundant Giver of this pure The Sun is a vast globe of light, -a mil- from the sun, and revolves round him in liquid, which his own hand has deposited in ion times larger than our earth; but all the about 12 of our years; Jupiter is the largest the deep, and diffused through the floating planets are dark bodies, having no light ex- planet in the solar system, being above a air, and the solid earth? Is it the farmer,