

# Natural History

- 1 What are the properties of the spirit a from onions? are they Electric.
- 2 It is said that, when the back is turned towards the fire and a piece of bread put on the knife which cuts the onion, the spirit a will not affect the eyes.
- 3 The best apples have the smallest stems.
- 4 What is the best method of watering plants and flowers? Capitality cord of wood, may be proper to the quantity required.  
At what season of the year are plants in a dead or sleeping state?—best season to cut down timber.—

6. In water sports does the water  
really ascend? - Whirling spring  
motion - black cloud - calm &

7. Are not water sports owing  
to electricity? - Mark of height  
at the bursting of a cloud -

8. Animals are found alive in  
situations where they can have  
no access to fresh air - Jungh's  
cups in the center of flowers from  
Jeffy to a hundred pounds weight  
In an Elm a load 1719. And  
an oak 1730 a large load a tree  
must have remained thus 100 or  
100 years - Can did the load sleep

9. The Helkenny marble is of a deep black when it has been used ~~as~~ in the Chimney for 15 or 20 years it exhibits white shells of minerals, mostly G. and the longer it stands the more it exhibits.
10. Loch niff, Clooburn Loch and some others in Scotland were agitated in an unusual manner on the first of Dec. 1755 during the Earthquake at Lisbon.
11. Two clouds are sometimes so situated that when the sun comes between them an intense heat is suddenly produced. The clouds produce an effect similar to two plane mirrors placed in a position inclined to each other.

12. If a peeping stone is laid on a plate with a little vinegar on it after remaining a short time at rest it slides forward, then stops, slides again &c - Does the cause?

13. Now can it be said that vegetables purify the Atmosphere when the cutting down of Forests renders the climate more mild? - This owing to the drawing of the stagnant water -

14. All sorts of Lichens are said to grow on the same tree, the British sun-dormortis dried by the sun, the green on Copper plates on a charcoal fire, &c. This probably arise the effects which have last is said to have on the nerves

15. Was the motion of the axis or  
there in the production of an  
earthquake?

16. All animals except man  
have a natural covering, this  
would have been to his vice  
sense of feeling - Most quadru-  
peds have a membrane below  
the skin by which they can  
shake off this & send the  
humans hands under this  
to man unnecessary -

17. The seaweed was first thought  
a mineral than a vegetable  
substance, but is now found to  
be the production of the sea.  
Polybe - How amazing must  
not the time be to raise such

Sharp suspended rocks as  
are found in the Ocean?

18 Calcareous & other marble like  
stone are all the productions of  
animals - While therefore the  
Ingenious men range the surface  
of the earth the mechanics are em-  
ployed in laying the foundations  
of Islands, the supports of Empires  
& Nations -

19. A lobster exerts a force with its  
claw = 60 lib, changes its scales every  
year, retires into some soft retreat  
takes from 1 to 3 Days - begins  
at the tail then the head and  
lastly the claws - is very voracious  
of life - when it is caught by the

leg and cannot disengage it so  
it slips out the leg and leaves the  
shell.

20. Many quadrupeds such as the  
cat wear a ~~fur~~ and almost  
all birds have a thin membrane  
which they can draw over the  
eye for its protection, through this  
they can see imperfectly, the Eagle  
can by this means look steadily  
at the sun -

21. The Chick can be pincered according  
to Malpighi six hours after  
incubation - when ready it  
breaks the shell itself -

22. It was necessary that joints and  
feet should be overgrown,  
had they carried their young they  
would have been too heavy  
for flying and discerning -

23. When the leg of a fowl bends  
inwards the muscles at the joint  
bend the toes outward, by this  
means the foot is kept fast to the  
twig when it is stuck -

24. On Monday the August 1783  
a fire ball passed by Manchester  
at 9 o'clock I was on the Street  
and had a good view of it. It  
was of an oval figure the head  
of a beautiful orange colour grew  
narrow towards the tail, left a  
shining line behind it which  
emitted sparks very slow and  
thick like a rocket. Its direction  
was from north to south, velocity  
about that of a large bow at  
a moderate height

25.

The <sup>or</sup> <sup>Ant</sup> <sup>case</sup> <sup>has</sup> <sup>a</sup>  
 tongue consisting of three parts  
 moveable on two joints, each joint  
 the length of the bill. It lays itself  
 on the ground & strikes out its tongue,  
 when covered with ants it draws  
 all in to its mouth.

26

The mountains in the northern  
 ocean are generally found moving  
 towards the southward, & so is  
 mountains in the southern Hemisphere  
 move north & give the same

27.

Double current in the straits  
 of Gibraltar, & why it is all due,  
 to the difference between the specific  
 gravity of the water in the Medit.  
 and that of the Atlantic. One  
 pound of water of the Medit. is  
 said to contain 70z salt but  
 of the Atlantic only 12 can oz.

D. E.

28

Flints are found only in Chalk beds in round pieces commonly from two to ten pounds

29.

In petrification, sometimes the instant principle escapes and the calcareous matter enters the pores. Sometimes the whole matter is dissolved, and there is left a mould which is filled with calcareous matter. In this case it is only a cast. The former may always be easily distinguished from the latter by the grain or organization appearing distinct in the first kind

30.

There are principally three kinds of Marble, White, yellowish, and black. In the yellow there is some iron, in the black either the instant principle or iron

31. In the former case if the marble  
be reduced to quick lime it is white  
in the latter it is black or gray  
the coats always found in the  
neighbourhood of junctions as is  
commonly alleged? —

32. The variations in the Barometer  
are generally greater in winter  
than <sup>in</sup> summer — Greatest in Jan<sup>y</sup>  
Decreasing till July —

33. When the wind blows into a coun-  
try the Baromet. rises when out of it  
it falls —

34. Vapours and precipice increase the  
<sup>weight</sup> pressure of a col<sup>d</sup>. of air when these  
fall the mercury sinks —

35. The sun and moon must affect  
the Bar. in the same manner they  
occasion tides —

36. The pressure of the air occasions the  
difficulty of opening oysters and the

force with which some fish strike  
to rocks - Bivalves - Sucking fish  
Mouths &c -

37. Breathing like the action of a  
pair of bellows - Sucking Cephalopods  
entirely on the mouth in which  
the ~~mouth~~<sup>tongue</sup> performs the office of a  
piston -

38. Fish raise themselves in water  
by the action of the air bladder.

39. Why is the Barometer affected  
by earthquakes at some thousand  
miles distance?

40. That the sea has once  
land on both sides the Thames  
cut for use as London bridge is  
proved by the round smooth pebbles  
found every where on  
digging below the surface -  
- same at Hopton in Scotland -

41 The Meridian of Ouby has a ridge  
of mountains running along the  
whole Kingdom. The East Side Rises  
gradually, the West abruptly.  
42 The East Side the sea is shallow  
on the West deep.

42. Instead of France and England having  
at some former period been  
united, it is more probable that  
they will at some future period be  
joined.

13 Many traces of Volcanos are  
found in the inland parts of  
Germany. The Volcanos now ex-  
ist. All those that remain  
are in the neighbourhood of  
the <sup>water</sup> Sea, can have not the  
former been one in the same  
situation? —

44. If water increases on the surface  
of the globe, how does this happen  
Do waters <sup>always</sup> retain part of what they  
have imbedded in spite of time  
or any artificial process?

45. What show have the fossils in  
the formation of Solids and how  
far do they contribute to increase  
the bulk? — Vegetables —

46. At the mouth of great rivers the  
land is universally gaining on  
the sea, Ganges, Nile Mississippi  
Thames &c.

47. The Eastern coast of England is  
flatter than the Western, the same  
thing in South America. Stones  
found among the pebbles

48. on the sea shore, are not so round  
or smooth as other stones — Hardness