

Natural History

1 What are the properties of the
Spirita from onions? are they
Electrical.

2 It is said that, when the back is
turned towards the fire and a piece
of bread put on the nose which covers
the onion, the spirita will not affect
the eyes

3 The best apples have the smallest
Stems.

4 What is the best method of watering
plants and flowers? — Capital
cord of wood, may be proper
to the quantity required —

5 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 - Single
cups in the center of flowers from
fifty 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
200 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, particularly G. and the longer it stands the more it exhibits.
10. Lark neff 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 weasel & ~~fox~~ 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 ^{or} Antelope has a
 tongue consisting of three parts
 moveable on two joints, each joint
 the length of the bill. It lays itself
 on the ground & sticks 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 cause

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 Med. 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
inflam^t 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.

These are principally three kinds
of Marble, White, yellowish, and
black. In the yellow there is some
iron, in the black either the in-
flam^t 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 ⁱⁿ summer — Greatest in Jan^y
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
^{weight} pressure of a col^d. 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~~^{tongue} 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
as far up as London bridge is
proved by the round smooth pebbles
& gravel 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 slopes
gradually, the west steeply.
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 ^{water} 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 ^{always} 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