

**Badische Landesbibliothek Karlsruhe**

**Digitale Sammlung der Badischen Landesbibliothek Karlsruhe**

**The young man's book of amusement**

**Halifax, 1848**

Experiment to shew the Separation of Bodies by Weight

[urn:nbn:de:bsz:31-100120](https://nbn-resolving.org/urn:nbn:de:bsz:31-100120)

*Interesting Experiment for the Microscope.*

The embryo grain of wheat, at the time of blossoming, being carefully taken out of the husk, will be found to have a small downy tuft at its extremity, which, when viewed in a microscope, greatly resembles the branches of thorn; spreading archwise, in opposite directions. By expanding a few of the grains, and selecting the most perfect, a very pretty microscopic object will be obtained for preservation.

---

*Experiment to shew the Separation of Bodies by Weight.*

Take a bottle with a long neck, and fill part of it with water; take a glass, and pour claret and water into it; reverse the bottle with the bottom upwards, stopping the mouth of it with your finger; then dip the mouth within the glass, and remove the finger, keep the bottle in that position for a time, and the wine will separate from the water, ascend and settle in the top of the bottle, and the water will descend from the bottle and settle in the bottom of the glass, the passage will be apparent to the eye, for you will see the wine, as it were in a small vein, rising through the water.

Let the upper glass be wine and the lower water, there follows no motion at all; this separation of the wine and water appears to be made by weight, the

water being made pensile, and a considerable weight of it in the belly of the bottle, supported by a small pillar of the same liquid in the neck of the bottle, it is this circumstance which sets the motion at work, for wine and water in a vessel will not separate by long standing.

---

*Brilliant Combustion.*

If a piece of inflamed phosphorus be plunged in a jar of nitrous acid gas, a very beautiful and brilliant combustion will be the consequence.

---

*Another.*

Pour some of Homberg's pyrophorus into a jar containing nitrous gas, a very beautiful stream of fire will be seen to flow at the bottom of the jar.

---

*Curious Optical Deception.*

Provide a sufficient number of small equilatera prisms, a few lines only in breadth, and in length equal to the height of the painting which you intend to make, and place them all close to each other on the ground to be occupied by the painting. Then