

come to be clogg'd in their motion : Whence it seem'd reasonable to expect that upon the Reunion of the Saline particles into such a Body, as they had constituted before, the redintegrated Sal Armoniack having, neer upon, the same Texture, would, upon its being redissolv'd, produce the same, or a not much inferior degree of Coldness : And hereupon, though I well enough foresaw that an Armoniack solution, being boyl'd up in Earthen vessels (for Glass ones are too chargeable) would, by piercing them, both lose some of the more subtile parts, and thereby somewhat impair the texture of the rest ; yet I was not deceiv'd in Expecting, that the dry Salt, remaining in the pipkins, being redissolv'd in a due proportion of water, would very considerably infrigidate it; as may further appear by the Notes, which for your greater satisfaction you will find here subjoyn'd, as soon as I have told you, that, though for want of other vessels I was first reduc'd to make use of Earthen ones, and the rather, because some Metallin Vessels will be injur'd by the dissolv'd Sal Armoniack, if it be boyl'd in them; yet I afterwards found some conveniencies in Vessels of other Metall, as of Iron; whereof you may command a further Account:

March the 29th, the Thermoſcope in the Air was at $8\frac{3}{4}$ inches; being put into a somewhat large evaporating glass, fill'd with water, it fell (after it staid a pretty while, and had been agitated in the liquor) to 8. inches: then about half the Salt, or less, that had been used *twice* before, and felt much less cold than the water, being put in and stirr'd about, the tincted Spirit subsided with a visible progress, till it was falln manifestly beneath 4. inches; and then, having caused some water to be freshly pump'd and brought in; though the newly mention'd Solution were mixt with it, yet it presently made the Spirit of Wine manifestly to ascend in the Instrument, much faster, than one would have expected, &c.

And thus much may suffice for this time concerning our *Frigorifick* Experiment; which I scarce doubt but the *Cartesians* will lay hold on as very favourable to some of their Tenents; which you will easily believe, it is *not* to the Opinion, I have elsewhere oppos'd, of those Modern Philosophers, that would have *Salt-petre* to be the *Primum Frigidum*: (though I found by trial, that, whilst 'tis actually dissolving, it gives a much considerabler degree of Cold, than otherwise.) But about the Reflexions, that may be made on this Experiment, and the Variations, and Improvements & Uses of it, though I have divers things lying by me; yet, since you have seen several of them already, and may command a sight of the rest, I shall forbear the mention of them here, not thinking it proper, to swell the bulk of this Letter with them.

An Account of two Books lately printed in London.

IEUCLIDIS ELEMENTA GEOMETRICA, novo ordine ac methodo demonstrata. In this compendious and pretty Edition, the Anonymous Author pretends to have renderd these Elements more expeditious; by bringing all together into one place, what belongs to one and the same subject: Comprising 1. what *Euclid* hath said of *Lines*, Streight, Intersecting one another, and Parallel. 2. What he hath demonstrated of a *Single Triangle*; and of *Triangles Compared* one with another. 3. What of the *Circle*, and its Properties. 4. What of *Proportions* in *Triangles* and other Figures. 5. What of *Quadrats* and *Rectangles*, made of *Lines* diversly

cut. 6. What of *Plane Superficies's*. 7. What of *Solids*. After which follow the *Problems*. The *Definitions* are put to each *Chapter* as need requireth. The *Axioms*, because they are few, and almost every where necessary, are not thus distributed in *Chapters*. The *Postulata*, are not subjoyn'd to the *Axioms*, but reserv'd for the *Problems*, the Author esteeming, that they being *practical* Principles, had only place in *Problems*.

This for the *Order*: As to the *Manner* of Demonstrating, One and the same is observ'd in most Propositions; all with much brevity; to the end, that what is not of it self difficult, may not be made so, by multitude of Words and Letters.

II. *THE ENGLISH VINE-YARD VINDICATED*. The Author (Mr. John Rose, his Majesties Gardener at his Royal Garden in St. James's) makes it his business in this small Tract (a very thin Pocket-book) by a few short Observations made by himself, to direct *Englishmen* in the Choice of the Fruit, and the Planting of Vine-yards; heretofore very frequently cultivated, though of late almost quite neglected by them.

He discourses skilfully, 1. Of the severall sorts of *Vines*, and what *Grapes* are most suitable to the *Climate* of *England*; where he chiefly commends the small *Black-grape*, or *Cluster-grape*; the *Parsley grape*; the *White Muscadine*; the *Frontinack*; and a new *White-grape*, with a red Wood and a dark green Leaf: All these being early ripe fruit. 2. Of the *Soyle*, and *Scituation* of a Vine-yard in *England*: Where, as to the *First*, he pitches upon a *Light Soile*, having a bottom of *Chalk* or *Gravel*, and given to *Brambles*, observing, that no Plant whatsoever is so connatural to the Vine for *Soyl*, as the *Bramble*. As for the *Scituation*, he chooses that side or declivity of a Hill, that lies to the *South* or *Southwest*; and is favoured with other *Hills* somewhat higher, or *Woods* on the *North* and *East*, to break the rigour of those quarters. This direction he thinks of that importance, that he affirms, that the discouragement of the Culture of *Vines* in *England* has only proceeded from men's mis-information on this material article of *Choice of Soyle* and *Scituation*. 3. How to prepare the Ground for the Plantation, *vid.* by plowing up the *Swarth* in *July*, and by disposing the *Turf* in small heaps, and so burning them; and spreading the ashes over the Land; care being taken, that by heaping too much materials together, the Earth be not over-burnt by the excessive heat and fire, which they require to reduce them to ashes.

What is added, of the *Manner* of planting the *Sets*; of *Dressing*, *Pruning* and *Governing* the Plantation; of the *Ordering* and *Cultivating* the Vine-yard after the first four years, till it needs renewing; as also of the *manner* and *time*, how and when to manure the Vine-yard, with *Compost*, will be better understood from the Book it self, than can be here described; the Author pretending, that, those few observations of his, as the native production of his own Experience, being practised with care, the Vine-yards in *England* may be planted, govern'd and perpetuated with undoubted success; and offering withall to furnish those, that have a desire to renew this Culture, and to store their grounds with *Sets* and *Plants* of all those sorts, which he recommends; he having a plentiful *stock* of them all.