Department of Special Collections
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In recent reflections on printed books and their history, the so-called geometry of the page has come in for considerable discussion. This exhibit takes a slightly different approach to matters geometrical - showcasing rare books on geometry, to be sure, but also other instances of geometrical shapes (in particular, triangles, squares, and circles) as rendered in type, ornament, illustrations, and metaphors. The books and manuscripts on display all come from the holdings of the Department of Special Collections.
-- Robin Rider

## Round \& Round

A volvelle, a figure meant to revolve, is "an old device consisting of one or more movable circles surrounded by other graduated or figured circles, serving to ascertain the rising and setting of the sun and moon, the state of the tides, etc.," according to the Oxford English dictionary. In metal form volvelles figure in such instruments as the astrolabe. Versions on vellum were included in medieval manuscripts, and functioned, for example, as tools to aid in determining the date of Easter and other movable feasts. With printing came new technologies (woodcut and copperplate engraving) for the production of volvelles and other paper instruments, but their installation usually remained a matter for the individual reader, owner, or binder. The devices also found application in other subject areas, as shown here.

Rossi, Gioseppe de'. (1585). Discorso sopra gli anni climatterici. Rome: Per Iacomo Bericchia \& Iacomo Tornieri. Call number: CA 16789. Here the volvelles have not yet been installed.

Quattrocchi, Alberto. (1617). Disputatio Alberti Quatrocchi ... de officinae pharmaceuticae veris, \& legitimis antiquorum ponderibus: in qua comprobatur, pondera monetaria Veneta respondere ijs, quibus aetate Galeni vtebatur antiquitas: huic quoque accedit epitome mensurarum Graecis, Romanis, et Arabibus medicis olim familiarium ad almum physicorum Venetum Collegium. Venice: Apud Antonium Pinellum. Call number: Duveen D 1397.

Gunter, Edmund, 1581-1626. (1653). The works of Edmund Gunter: conteining the description and use of the sector, cross-staff, and other instruments: with a canon of artificiall signes and tangents, to a radius of 10000.0000 parts, and the use thereof in astronomie, navigation, dialling, \&c: much enlarged by the author through the whole work in his life time; together with a new Treatise of fortification. Whereunto is now added the further use of the quadrant fitted for daily practise, with new lines serving the former uses and many other
purposes more accurately. London: Printed by F.N. for Francis Eglesfield. Call number: Thordarson T 1870.

Dariot, Claude, 1533-1594. (1653). Dariotus redivivus, or, A brief introduction conducing to the judgement of the stars: wherein the whole art of judicial astrologie is briefly and plainly delivered: by which a determinate judgement may be given upon any question demanded. London: Printed for Andrew Kemb..., 1653 Call number: Thordarson T 816.

Wither, George, 1588-1667. (1635). A collection of emblemes, ancient and moderne: quickened with metricall illustrations, both morall and divine. London: Printed by A. M. [ie. Augustune Matthewes] for Richard Royston. Call number: Thordarson T 2679.

## Pascal's Triangle \& Magic Squares

In a magic square, the numbers in each row, in each column, and in the diagonals, all add up to the same number. One of the earliest depictions in Western art is that in Albrecht Dürer's engraving Melencolia [sic], an example of Dürer's vigorous interest in mathematics. In Pascal's triangle, named for the French mathematician and natural philosopher Blaise Pascal (1623-1662), every interior number is the sum of the two numbers above it. Numbers in the rows - 1, 11, $121,1331,14641$, etc. - correspond to the coefficients in the binomial expansion, in which the quantity $(a+b)$ is raised to various integral powers.

Harpur, John. (1617). The jewell of arithmetick, or, The explanation of a new invented arithmeticall table, whose portraiture is here deomonstrated [sic]: pleasant to reade, and profitable to be practised by all degrees of men, at all times, and in all places. London: Imprinted by Felix Kyngston and to be sold by Iohn Browne. Call number: Thordarson T 1897.

Arnauld, Antoine, 1612-1694. (1711). Nouveaux elemens de geometrie: contenant des moyens de faire voir quelles lignes sont incommensurables: de nouvelles mesures des Angles, dont on ne s'écroit point encore avisé: et de nouvelles Manieres de trouver \& de démontrer la proportion des Lignes; avec de nouvelles demonstrations des Propositions les plus communes. La Haye: Chez J. van Duren. Call number: QA 35 .A7.

Kircher, Athanasius, 1602-1680. (1679). Tariffa Kircheriana: id est inventum aucthoris novum expeditâ, \& mirâ arte combinatâ methodo, vniuersalem geometria, \& arithemicae practicae summam continens. Romae: Sumptibus Nicolai Angeli Tinassij. Call number: 856689.
[Montmort, Pierre Rémond de], 1678-1719. (1713). Essay d'analyse sur les jeux de hazard. Paris: Chez Laurent Le Conte. Call number: CA 7918.

Pascal, Blaise, 1623-1662. (1779). Oeuvres. La Haye: Detune. Call number: B 1900 A2 1779 5.

Arnoux, Gabriel, 1831-. (1894-1908). Arithmetique graphique. 3 vols. Paris: GauthierVillars. Call number: CA 8817 v. 1.

## Quadrature of the Circle

Squaring the circle is using only a ruler and compass to construct, for any given circle, a square with the same area as the circle - a problem posed by ancient geometers. The task of doing so in a finite number of steps was proven impossible in the late 19th century. Quadrature of the circle may also refer to methods for approximating the area encompassed by a circle.

Fine, Oronce, 1494-1555. (1544). Quadratura circuli, tandem inuenta \& clarissimè demonstrata: De circuli mensura, \& ratione circu[m]ferentiæ ad diametrum, demonstrationes duæ. De multangularu[m] omniu[m] \& regulariu[m] figuraru[m] descriptione, liber hactenus desideratus. De inuenienda longitudinis locorum differe[n]tia, aliter quàm per Lunares eclipses, etiam dato quouis tempore, liber admodùm singularis. Planisphærium geographicum, quo tum longitudinis atq[ue] latitudinis differe[n]tiæ, tum directæ locorum deprehenduntur elongationes. Paris: Apud Simonem Colinæum. Call number: 759537.

Fine, Oronce, 1494-1555. De rebus mathematicis, hactenus desideratis, libri III. Quibus inter caetera, circuli quadratura centum modis, \& suprà. Paris: Ex officina M. Vascosani. Call number: 854383.

Leotaud, Vincent, 1595-1672. (1654). Examen circuli quadraturae hactenus editarum celeberrimae: quam ... Gregorius a Sancto Vincentio Societatis Jesu exposuit. Lyon: Apud Guillelmum Barbier, typographum regium. Call number: 766050 noncurrent.

## Coins \& Emblems

Estienne, Henry, sieur des Fossez. (1650). The art of making devises: Treating of hieroglyphicks, symboles, emblemes, aenigma's [sic], sentences, parables, reverses of medalls, armes, blazons, cimiers, cyphres and rebus. London: Printed for Iohn Holden. Call number: Thordarson T 1019.

Nicéron, Jean François, 1613-1646. (1652). La perspective curieuse ... divisée en quatre livres: auec L'optique et la catoptrique du r.p. Mersenne ... mise in lumiere aprés la mort de l'autheur [sic]. Paris: Chez la veufue [sic] F. Langlois. Call number: 902432 noncurrent oversize. This plate illustrates an anamorphic projection, which the viewer would need a special device (such as a cylindrical mirror) to reconstitute the portrait.

Bullart, Isaac, 1599-1672. (1682). Academie des sciences et des arts, contenant les vies, \& les eloges historiques des hommes illustres ... avec leurs pourtraits tirez sur des originaux au naturel [sic]. Amsterdam, D. Elzevier. Call number: 1472458 noncurrent oversize. Shown here is cardinal Francisco Jiménez de Cisneros, usually known as Ximenes de Cisneros (1436-1517), with his hat in the ring. He promoted the Crusades, founded the Complutense University of Madrid, funded the first printed polyglot version of the entire Bible, and served as regent of Spain and grand inquisitor.

Evelyn, John, 1620-1706. (1697). Numismata: a discourse of medals, antient and modern: together with some account of heads and effigies of illustrious, and famous persons, in sculps, and taille-douce, of whom we have no medals extant; and of the use to be derived from them. To which is added a digression concerning physiognomy. London: Printed for Benj. Tooke. Call number: Thordarson T 1027.

Dobson, Rosemary. Greek coins: a sequence of poems with line drawings by the author. Canberra: Brindabella Press, 1977. Call number: Press Brindabella. Ours is copy no. 200.

## Triangulation

Using a triangle or network of triangles to determine heights, distances, and relative positions of points in a landscape.

Münster, Sebastian, 1489-1552. (1551). Rudimenta mathematica: haec in duos digeruntur libros, quorum prior geometriae tradit principia seu prima elementa, unà cum rerum \& variarum figuraru[m] dimensionibus, posterior uerò omnigenum Horologiorum docet delineationes. Basel: In Officina Henrichi Petri. Call number: 788560 noncurrent.

Belli, Silvio, -1580. (1570). Libro del misurar con la vista. Venice: Giordano Ziletti. Call number: 780795 noncurrent.

Bettini, Mario, 1582-1657. (1648). Aerarium philosophiae mathematicae: in quo elementa philosophiae geometricae de planis, curuis, \& solidis figuris applicata, et ornata-usibus eximiis in omni scientiarum, \& artium genere, novis praxibus, paradoxis, locis Aristotelicis, \& aliorum
philosophorum, \& scriptorum ... \& universalissimis confirmata, methodo jueundiore, ac breuiore in tres tomos distributa sunt. Intercessere ingeniosae inventionia exodia horaria .... 3 vols. Bologna: Typis Jo. Baptistae Ferronii. Call number: 777816 noncurrent. Elsewhere in this thick tome are designs for sundials in odd shapes. (Who wouldn't want a sundial in the shape of a sandal, after all?)

Danfrie, Philippe. (1597). Déclaration de l'usage du graphomètre: par la pratique duquel l'on peut mesurer toutes distances des choses de remarque qui se pourront voir \& discerner du lieu ou il sera posé: et pour arpenter terres, bois, prez, \& faire plans de villes et forteresses, cartes géographiques, \& généralement toutes mesures visibles: \& ce sans regle d'arithmetique. Paris: Chez ledict Danfrie. Call number: 730385 noncurrent. Danfrie advertised that a mathematical instrument of his invention - the graphometer - would allow its user to measure "all distances" without the rule of arithmetic. Danfrie was also a type-cutter and engraver and served as superintendent of the Paris Mint.

Bramer, Benjamin, 1588-1649. (1684). Apollonius cattus: oder, Kern der gantzen geometriae in drey Theil ... [Cassel]: Marburg: In Verlegung Johann Ingebrands; Joh. Henrich Stock. Call number: 1048380 noncurrent.

## Tiles

Truchet, Père Sébastian (1657-1729). "Mémoire sur les combinaisons." Académie royale des sciences (France). Histoire et mémoires (1704), 365-373 plus 7 plates. Call number: AP A1656 M 1704. This model of pattern formation using squares divided into triangles is now known as Truchet tiling. Truchet's interest in grids extended as well to his work, with others from the Paris Academy of Sciences, on devising a new typeface on geometrical principles - the so-called romain du roi.

Ozanam, Jacques, 1640-1717. (1720). La perspective theorique et pratique, oú l'on enseigne la maniere de mettre toutes sortes d'objets en perspective, \& d'en représenter les ombres causées par le soleil ou par une petite lumiere. Paris: Chez Claude Jombert. Call number: 816474 noncurrent. Tiled floors frequently figured in demonstrations of the principles of linear perspective.

## Grids

Cook, Moses. (1676). The manner of raising, ordering and improving forest-trees: also how to plant, make and keep woods, walks, avenues, lawns, hedges, \&c. with several figures proper for avenues and walks to end in, and convenient figures for lawns: also rules and tables shewing how the ingenious planter may measure superficial figures, with rules how to divide
woods or land, and how to measure timber and other solid bodies, either by arithmetick or geometry, shewing the use of that most excellent line, the line of numbers, by several new examples: with many other rules, useful for most men. London: Printed for Peter Parker. Call number: Thordarson T 605. About the proper shape ("figure") for lawns:

- "A Square is no ill Figure for a Lawn."
- "A Circle is a good Figure for a Lawn, onely [sic] it must break off before it comes against the Front."
- "A Triangle is also a very proper Figure for a Lawn, but let it not be too Acute at the Angle which leads to the Front, but rather Obtuse, or right angled at the Angle next the Front...."

Bouguer, Pierre, 1698-1758. (1757). De la manœuvre des vaisseaux, ou, Traité de méchanique et de dynamique: dans lequel on réduit a des solutions très-simples les problemes de marine les plus difficiles, qui ont pour objet le mouvement du navire. Paris: H.L. Guerin \& L.F. Delatour. Call number: CA 432.

Sadon, G. Cours de tissage: 2me année 1880-1881. [France]. Call number: Manuscripts MS 400. Weaving samples rendered in paper form.

Anonymous. Astrology notebook [between 1900-1909]. Call number: Cairns Manuscript. Featuring quadrille-ruled graph paper.

From the Fry Collection of Italian History and Culture: two school notebooks, one with geometry problems worked out on graph paper and another with the "Pythagorean table" (a.k.a. the multiplication table), along with a ration card, all from the Fascist era.

Olson, Toby. (1982). Two standards. Madison, Wisconsin: Salient Seedling Press. Call number: Press Salient Seedling.

Huot, Marie Claire, and Robert Majzels. (2013). 85. Toronto: Moveable; Los Angeles: Les Figues Press. Shown here: Mao Zedong, one vol. from the set, the rest of which is on display in the exhibit case entitled Corners. "The 85 project is a poetic exploration into the way one language and culture - in this case English - perceives and receives another - in this case Chinese."

Price, Robin. (2007). 43, according to Robin Price. Middletown, Connecticut. Call number: Press Price oversize. "Paper maps from locations along the 43 rd parallels are bound in an accordion that structurally supports the main text, which is printed on graph paper and also hinged together as an accordion [opening to 20 ft .]" Co-designed and co-produced with Daniel E. Kelm at the Wide Awake Garage.

Thomas, Lewis, 1913-1993. Quartet. (1986). Etchings by Joseph Goldyne. San Francisco: Pacific Editions; Berkeley: Arif Press. Call number: Press Arif oversize. Ours is copy no. 43, signed by the author and illustrator.

## Abstract Shapes for Explaining Chemical Processes

Youmans, Edward Livingston, 1821-1887. (1857-1854). Chemical atlas, or, The chemistry of familiar objects: exhibiting the general principles of the science. New York; London: D. Appleton \& Co. Call number: CA 15469 oversize.

Another edition (1855, © 1854). Chemical atlas: or, The chemistry of familiar objects; exhibiting the general principles of the science in a series of beautifully colored diagrams, and accompanied by explanatory essays, embracing the latest views of the subjects illustrated. Designed for the use of students and pupils in all schools where chemistry is taught. New York: D. Appleton \& Co. Call number: Cole Coll. C 1224 oversize.

## Constructed from Squares \& Circles

Granollachs, Bernat de, 1421-approximately 1487. (1521). Lunariũ: in quo reperiunt cõiunctiones \& oppositiones lune \& eclypses solis \& lune: per anni circulum. Festa mobilia. Aureus numerus: \& litera dominicalis \&c. [Rome?: Marcello Silber?]. Call number: 1136375 noncurrent.

Dürer, Albrecht, 1471-1528. The construction of Roman letters. Cambridge, Dunster House: 1924. Call number: Press Rudge, William Edwin. This work thus draws on the constructions using ruler and compass in Dürer's Underweysuug der Messung : mit dem Zirckel und Richtscheyt, in Linien Ebnen uñ gantzen Corporen (1538), also in Special Collections. The letters in the work exhibited here were "printed from process blocks made by Emery Walker" and used for a Grolier Club translation of Dürer's work published in 1917.

The exquisite corpse revisited. (1998). [Stevens Point, Wisconsin.] Call number: Press SailorBOY flat.. The project, organized by Gail Panske, Robert Erickson, and John Schulz, brought together thirty artists: "Each corpse leader ... selected two participants. They divided the head, torso, and legs amoung[sic] themselves and then created and assembled the images accordingly."

## Corners

Ptolemy, active 2nd century. (1493). Liber quadripartiti Ptholemei. Venetys: per Bonetum locatellu[s] impensis nobilis viri Octauiani Scoti ciuis Modoetiensis. Call number: CA 10582 incunable. From the W. Reeder Family Collection. One of the earliest printed versions of an envelope horoscope diagram, based on the twelve astrological houses.

Blagrave, John, -1611. (1585). The mathematical jewel: shewing the making, and most excellent use of a singuler instrument so called: in that it performeth with wonderful dexteritie, whatsoever is to be done, either by quadrant, ship, circle, cylinder, ring, dial, horoscope, astrolabe, sphere, globe, or any such like heretofore devised: yea or by most tables commonly extant ...: the use of which jewel is so aboundant and ample, that it leadeth ... through the whole artes of astronomy, cosmography, geography, topography, navigation ... with great and incredible speede. Imprinted at London: By Walter Venge. Call number: Thordarson T 298. Blagrave provided guidance in interpreting horoscope diagrams.

Boyle, Robert, 1627-1691. (1673). Essays of the strange subtilty, determinate nature, great efficacy of effluviums: to which are annext New experiments to make fire and flame ponderable: together with A discovery of the perviousness of glass. London: Printed by W. G. [ie. William Godbid] for M. Pitt. Call number: Duveen D 267. One of ten books from Newton's library in Special Collections, this volume features several instances of Newton's distinctive practice of dog-earing pages - Newton not only folded down the corner of a page, but the point of the corner pointed to the word or phrase he wished to remember.

A stack of books featuring bindings with leather corners:

- Shoberl, Frederic, 1775-1853. (1824). South Sea Islands; being a description of the manners, customs, character, religion and state of society among the various tribes scattered over the great ocean called the Pacific or the South Sea. London, R. Ackermann. Call number: Thordarson T 4176.
- Eliot, George, 1819-1880. (1859). Adam Bede. Edinburgh; London: William Blackwood and sons. Call number: CA 1556.
- Lilford, Thomas Littleton Powys, Baron, 1833-1896. (18851897). Coloured figures of the birds of the British Isles. London, R.H. Porter. Call number: Thordarson T 3546.

Punctuation: A printer's study. (2001). Stroud, Gloucestershire: Evergreen Press. Call number: Press Evergreen, flat. One of 200 copies.

No. 29. Reduced to survival. One issue of the little magazine " $6 x 6$."

Huot, Marie Claire, and Robert Majzels. (2013). 85. Toronto: Moveable; Los Angeles: Les Figues Press. 5-vol. set, as issued in plastic holder. One of the volumes (Mao Zedong) is included in the cases on Grids.

## Microscopy

Illustrations in these three works all framed microscopic observations within the circles of microscopic lenses and eyepieces, following the example set by the pioneering Micrographia of Robert Hooke, also held in Special Collections and digitized as part of UW Digital Collections.

Ledermüller, Martin Frobenius, 1719-1769. (1764-1768). Amusement microscopique: tant pour l'esprit, que pour les yeux; contenant cinquante estampes dessinées d'après nature et enluminées, arec leurs explications. 3 vols. Nuremberg: Se grave et se vend chés [sic] A.W. Winterschmidt; imprimé chés De Lanoy. Call number: MS L49 1. Special Collections also holds the German title, Mikroskopischer Gemüths-und Augen-Ergötzung (1760-1761), of which this is the French translation.

Baker, Henry, 1698-1774. (1785). Of microscopes and the discoveries made thereby. London: Printed for J. Dodsley. Call number: MS B17 0 Cutter.

Adams, George, 1750-1795. (1787). Essays on the microscope: containing a practical description of the most improved microscopes; a general history of insects, their transformations, peculiar habits, and oeconomy: an account of the various species and singular properties of the Hydrae and Vorticellae: a description of three hundred and seventynine animalcula, with a concise catalogue of interesting objects: a view of the organization of timber, and the configuration of salts when under the microscope. London: Printed for the Author, by R. Hindmarsh. Call number: MS AD15 Cutter.

## Finding One's Way

Taisnier, Jean, 1508-approximately 1562. (1562). Opusculum perpetua memoria dignissimum: de natura magnetis, et eius effectibus. Cologne: Apud Ioannum Birckmannum. Call number: Thordarson T 2478.

Norman, Robert, active 1590. (1592). The new attractive: containing a short discourse of the magnes or loadstone: and amongst other his vertues, of a new discovered secret and subtill propertie, concerning the declining of the needle, touched therewith under the plaine of the horizon. London: [Imprinted] by E. Allde, for Hew Astley. Call number: Thordarson T 2241.

Oughtred, William, 1575-1660. (1633). The circles of proportion and the horizontal instrument: the former shewing the maner how to work proportions both simple and
compound ...: and is newly increased with an Additament [sic] for navigation: the later teaching how to work most quaestions, which may be performed by the globe, and to delineat dialls upon any kind of plaine. London: Printed by Augustine Mathewes, and are to bee sold by Nic. Bourne. Call number: Thordarson T 2256.

Morgan, Sylvanus, 1620-1693. (1652). Horologiographia optica: dialing universal and particular, speculative and practica ...; lastly, Topothesia, or, A feigned description of the court of art: full of benefit for the making of dials, use of the globes, difference of meridians, and most propositions of astronomie [etc.] London: Printed by R. \& W. Leybourn for Andrew Kemb, and Robert Boydell. Call number: Thordarson T 2417.

Wakely, Andrew. (1767). The mariner's compass rectified: containing tables, shewing the true hour of the day, the sun being upon any point of the compass: with the true time of the rising and setting of the sun and stars, and the points of the compass, upon which they rise and set: with tables of amplitudes: ... With the description and use of those instruments most in the art of navigation. London: printed for J. Mount, and T. Page. Call number: 1005536.

Hodgson, James, 1672-1755. (1738). The theory of navigation demonstrated: and its rudiments clearly and plainly proved ... to which is added, a new table of difference of longitude to every point, half point and quarter point of the compass, very useful for the ready and expeditious workings of traverses upon the principles of Mercators sailing [etc.]. London: Printed for William and Thomas Page. Call number: CA 8477.

Kent, Rockwell, 1882-1971. (1930). $N$ by E. New York: Brewer \& Warren. An account of the author's voyage to Greenland in 1929 in the boat Direction.

## Chessboards \& Counters

Damiano, de Odemira, approximately 1480-approximately 1544. (1524-1530). Libro da imparare giocare a scachi et de belitissimi partiti, revisti \& recorretti: con somma diligentia emendati da molti famosissimi giocatori: In lingua spagnola \& taliana. [Italy?: s.n]. Call number: VRSH D18 Cutter.

Philidor, François Danican, 1726-1795. (1754). Die Kunst im Schachspiel ein Meister zu Werden: Das ist: ein neuer Unterricht, wie man in kurzem dieses so edle und beliebte Spiel nach seiner Vollkommenheit erlernen könne; gewiesen nach den neuesten Mustern des berühmten und itztlebenden grossen Schachspielmeisters in England. Strassburg: A. König. Call number: VRSJ.P53 G Cutter.

Stein, Elias, 1748-1812. (1789). Nouvel essai sur le jeu des échecs, avec des reflexions militaires relatives á ce jeu. La Haye: Aux depens de l'auteur. Call number: VRSJ ST3 Cutter.

Giacometti, Francesco. (1801). Nouveau jeu d'echecs; ou, Le jeu de la guerre, invention. Gênes: De l'imprimerie de J. B. Como, Call number: VRSXM G34 Cutter.

Bradford, Gamaliel, 1795-1839. (1826). The history and analysis of the supposed automaton chess player of M. de Kempelen, now exhibiting in this country by Mr. Maelzel; with lithographic figures, illustrative of the probable method by which its motions are directed. Boston: Hilliard, Gray and Co. Call number: VRSX H62 Cutter.

Burroughs, Edgar Rice, 1875-1950. (1922). The chessmen of Mars. Chicago: A.C. McClurg \& Co. Call number: CA 17220 no. 268.

Carroll, Lewis, 1832-1898. (1887). The game of logic. London; New York: Macmillan and Co. Call number: CA 16790 . With an envelope containing a game card and nine counters.

## Shapes of the Occult

Khunrath, Heinrich, 1560-1605. (1595). Yehovah elohim tseva'ot, totique, celestis exercitus spiritualis, militiae, proximo suo fideli, et sibimetipsi, naturae atque arti, Amphitheatrum sapientiae aeternae, solius verae [etc.] [Hamburg?:s.n.]. Call number: Duveen D 897 flat. Digitized version at https://www.library.wisc.edu/specialcollections/collections/history-of-science/khunraths-amphitheatrum-sapientiae-aeternae-1595/.

Fludd, Robert, 1574-1637. (16171624). Utriusque cosmi majoris scilicet et minoris metaphysica, physica atque technica historia: in duo volumnina secundum cosmi differentiam diuisa. Oppenheim: Aere Johan-Theodori de Bry; Typis Hieronymi Galleri. Call number: Duveen D 629 oversize.

Fludd, Robert, 1574-1637. (1638). Philosophia Moysaica: in qua sapientia \& scientia creationis \& creaturarum sacra veréque Christiana (ut pote cujus basis sive fundamentum est unicus ille lapis angularis Jesus Christus) ad amussim \& enucleaté explicatur. Gouda: Excudebat Petrus Rammazenius, Call number: Duveen D 632 oversize.

Kircher, Athanasius, 1602-1680. Arithmologia sive De abditis numerorum mysteriis: qua origo, antiquitas \& fabrica numerorum exponitur; abditae eorundem proprietates demonstrantur; fontes superstitionum in amuletorum fabrica aperiuntur; denique post cabalistarum, arabum, gnosticorum, aliorumque magicas impietates detectas, vera \& licita
numerorum mystica significatio ostenditur. Rome: Ex typographia Varesij. Call number: 834400.

Anonymous. (1678). Musaeum Hermeticum reformatum et amplificatum: omnes sophospagyricae artis discipulos fidelissimè erudiens, quo pacto summa illa veraque lapidis philosophici medicina, qua res omnes qualemcunque defectum patientes, instaurantur, inveniri, \& haberi queat: continens tractatus chimicos XXI. praestantissimos, quorum nomina \& seriem versa pagella indicabit: in gratiam filiorum doctrinae, quibus Germanicum idioma ignotum est, Latina lingua ornatum. Frankfurt: Apud Hermannum à Sande. Call number: Duveen D 1197.

Anonymous (1749). Musaeum hermeticum reformatum et amplificatum: omnes sophospagyricae artis discipulos fidelissime erudiens, quo pacto summa illa veraque lapidis philosophici medicina, qua res omnes qualemcunque defectum patientes instaurantur, inveniri et haberi queat: continens tractatus chimicos XXI ...: in gratiam filiorum doctrinae, quibus germanicum idioma ignotum est, latina lingua ornatum. Frankfurt and Leipzig: [s.n.]. Call number: Duveen D 1198.

## Euclidean Geometry

Guerrino, Tommaso, 1733-1778. (1818). Euclid in campagna: ossia, Geometria pratica. Milan: Tipografia di P. Agnelli. Call number: 809811 noncurrent.

Clairaut, Alexis Claude, 1713-1765. (1741). Élémens de géometrie. Paris: Chez David. Call number: LD .C52 1741.

Euclid. (1759). Elementi geometrici piani, e solidi di Euclide. Venice: Per Gio. Battista Recurti. Call number: CA 2664.

Playfair, John, 1748-1819. (1795). Elements of geometry: containing the first six books of Euclid, with two books on the geometry of solids. To which are added, Elements of plane and spherical trigonometry. Edinburgh: Printed for Bell \& Bradfute, and G. G. \& J. Robinson, London. Call number: CA 16304.

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## Wheels

Cattan, Christoforo. (1591). The geomancie of Maister Christopher Cattan gentleman: a book, no lesse pleasant and recreatiue, then of a wittie inuention, to knowe all thinges, past, present, and to come: whereunto is annexed the wheele of Pythagoras. London: Printed by Iohn VVolfe, and are to be sold at Edward VVhites shop. Call number: Thordarson T 2959

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## And More Wheels

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