

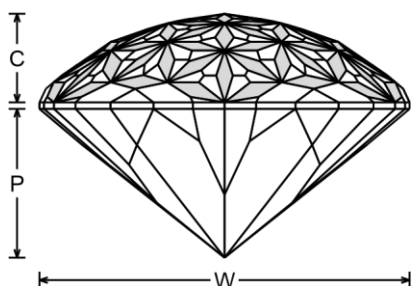
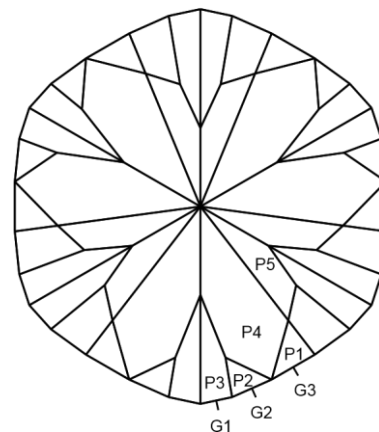
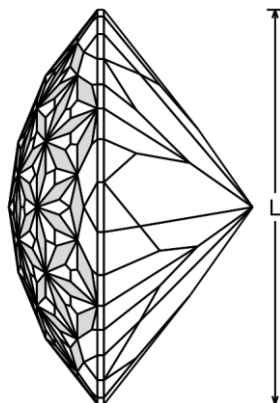
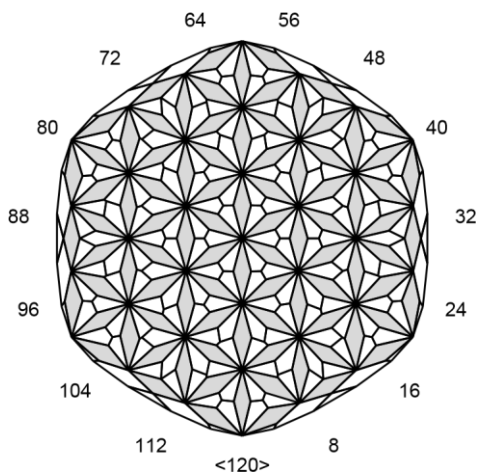
INTERNATIONAL FACETING CHALLENGE 2022

Section E Flower of Life 2

To be cut in any colour synthetic gem material

Suggested Minimum Size 19.0mm

Facets: 324 + 30 Girdles; Meets: 116 (Crown – 73, Pavilion – 43)



Flower of Life 2

By Andrew Brown, 2020

Angles for R.I. = 1.54 to 2.50

324 + 30 girdles = 354 facets

3-fold mirror image symmetry

120 index

L/W = 1.064 H/W = 0.657

C/W = 0.239 P/W = 0.40 1

Vol./W³ = 0.230

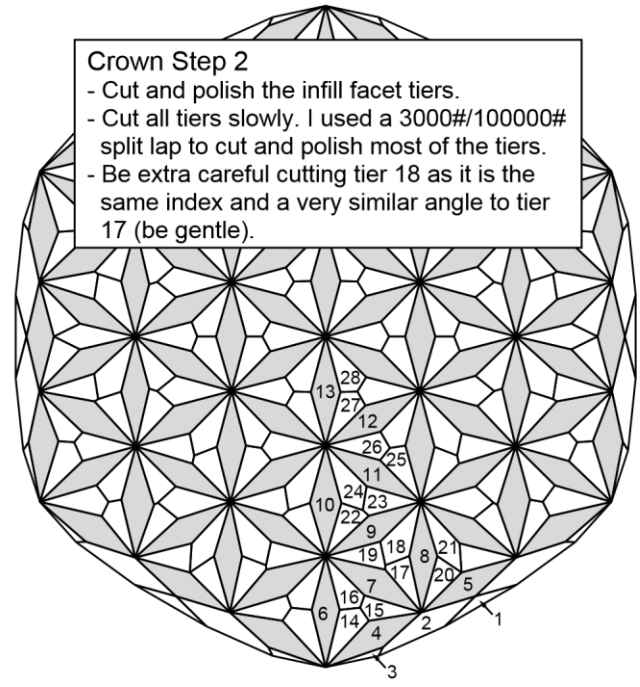
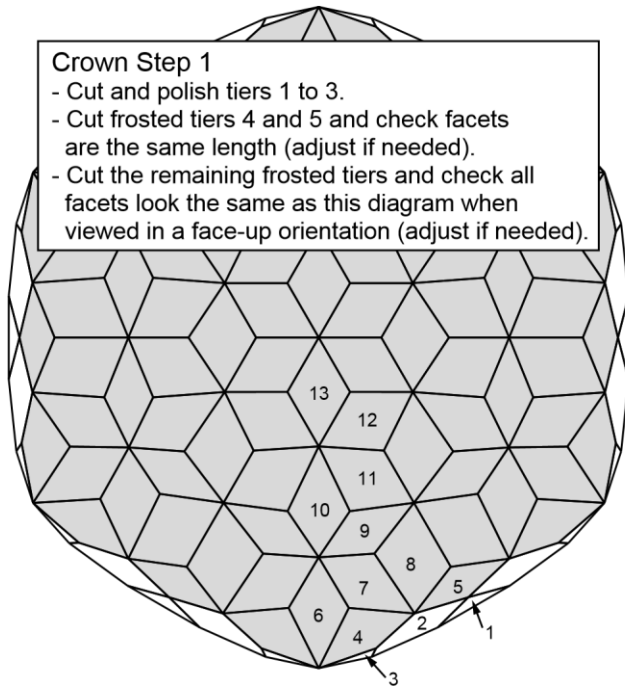
Note: This design will suit medium to dark colour saturated rough, as cutting in clear or very light colored rough may result in the frosting being overpowered. I have used 1, 2, 3... to label the crown facets due to the small size of some facets on the diagram. Take care cutting the infill facets (Crown Step 2) as many of the indexes and angles are close together. I found the two step approach makes cutting the crown relatively easy and will hopefully reduce errors compared to sequencing the cutting girdle up.

I used a 800# brass sintered lap to create the frosting. The finished result of my first Flower of Life version can be found on my webpage: <https://facetingdesigns.com/images/FOL%201600.jpg>

I would like to acknowledge other faceted versions of the Flower of Life that have inspired me, first by Hashnu Stones and Gems, and later Victor Tuzlukov. My versions have a different facet layout and I have focused on making them as easy to cut as possible.

PAVILION

P1	39.98°	010-030-050-070-090-110	Form a TCP
P2	39.74°	008-012-028-032-048-052-068-072-088-092-108-112	Meet TCP
P3	38.85°	004-016-024-036-044-056-064-076-084-096-104-116	Meet TCP
G1	90.00°	004-016-024-036-044-056-064-076-084-096-104-116	Set stone size
G2	90.00°	008-012-028-032-048-052-068-072-088-092-108-112	Meet G1, P2, P3
G3	90.00°	010-030-050-070-090-110	Meet G2, P1, P2
P4	38.55°	009-031-049-071-089-111	Meet G2, G3, P1, P2. Form FCP
P5	38.16°	011-029-051-069-091-109	Meet P1, P2, P4 & FCP [Cut slowly]



CROWN

1	64.69°	010-030-050-070-090-110	Establish girdle width
2	56.50°	008-012-028-032-048-052-068-072-088-092-108-112	Meet G2, G3, 1. Maintain girdle width
3	50.68°	004-016-024-036-044-056-064-076-084-096-104-116	Meet G1, G2, 2. Maintain girdle width
4	40.71°	003-017-023-037-043-057-063-077-083-097-103-117	Meet G1, 3. [Frost]
5	39.93°	010-030-050-070-090-110	Meet 1, 2. [Frost]
6	38.04°	120-020-040-060-080-100	Meet G1, 3, 4. [Frost]
7	35.37°	004-016-024-036-044-056-064-076-084-096-104-116	Meet 2, 4, 5. [Frost]
8	33.76°	008-012-028-032-048-052-068-072-088-092-108-112	Meet 2, 4, 5, 7. [Frost]
9	27.54°	005-015-025-035-045-055-065-075-085-095-105-115	Meet 6, 7. [Frost]
10	22.41°	120-020-040-060-080-100	Meet 6, 7, 9. [Frost]
11	20.55°	006-014-026-034-046-054-066-074-086-094-106-114	Meet 8, 9. [Frost]
12	14.02°	010-030-050-070-090-110	Meet 10, 11. [Frost]
13	8.21°	120-020-040-060-080-100	Meet 10, 11, 12. Form FCP. [Frost]
14	38.92°	002-018-022-038-042-058-062-078-082-098-102-118	Meet 3, 4, 6
15	38.19°	003-017-023-037-043-057-063-077-083-097-103-117	Meet 2, 4, 5, 7, 8
16	37.44°	002-018-022-038-042-058-062-078-082-098-102-118	Meet 6, 7, 9, 10
17	33.51°	007-013-027-033-047-053-067-073-087-093-107-113	Meet 2, 4, 5, 7, 8, 15
18	32.81°	007-013-027-033-047-053-067-073-087-093-107-113	Meet 8, 9, 11 [Cut Very slowly]
19	32.53°	005-015-025-035-045-055-065-075-085-095-105-115	Meet 6, 7, 9, 10, 16
20	34.99°	009-011-029-031-049-051-069-071-089-091-109-111	Meet 2, 4, 5, 7, 8, 15, 17
21	34.25°	010-030-050-070-090-110	Meet 8, 9, 11, 18 & 5, 20
22	23.66°	003-017-023-037-043-057-063-077-083-097-103-117	Meet 6, 7, 9, 10, 16, 19
23	22.15°	005-015-025-035-045-055-065-075-085-095-105-115	Meet 8, 9, 11, 18, 21
24	21.72°	004-016-024-036-044-056-064-076-084-096-104-116	Meet 10, 11, 12, 13
25	19.11°	010-030-050-070-090-110	Meet 8, 9, 11, 18, 21, 23
26	17.00°	009-011-029-031-049-051-069-071-089-091-109-111	Meet 10, 11, 12, 13, 24
27	10.22°	008-012-028-032-048-052-068-072-088-092-108-112	Meet 10, 11, 12, 13, 24, 26
28	8.21°	010-030-050-070-090-110	Meet FCP

Note: Frosted facet indexes are indicated by **bold** text in the cutting instructions.