

NAME: _____

SECTION: _____

TOPIC	DESCRIPTION	MAX	GRADE	COMMENT
General	<i>pedagogical appeal / impact</i>	2.5		
Topic A	counting regions	0.5		
	“Get Off the Earth” puzzle	0.5		
Topic B	“painted faces” table	0.5		
	number trick	0.5		
Topic C	problem solving	2.0		
Topic 1	gcd and lcm by prime factorization	0.5		
	perfect number & amicable pair	0.5		
	9 x 9 magic square / formula	0.5		
Topic 2	perpetual calendar	0.5		
	modular art colored with paint program	1.0		
Topic 3	logarithmic spiral	0.5		
	knotty pentagram	0.5		
	golden sketch	0.5		
Topic 4	Fibonacci whirling squares	0.5		
	male bee family tree	0.5		
Topic 5	light bulbs (binary to decimal)	0.5		
	1492 (decimal to binary / verify)	0.5		
	multiplying by doubling	0.5		
Topic 6	binomial expansion & Pascal’s Triangle	0.5		
	Pascal’s Triangle visual pattern	1.5		
Topic 7	Islamic pattern	0.5		
	pin-and-string ellipse	0.5		
Topic 8	hyperbola by paper-folding	0.5		
Topic 9	n to 3n line design	1.0		
	n to 2n curve stitching	1.0		
Topic 10	rounded Reuleaux construction	0.5		
Topic 11	base circle 3 (ellipse)	0.5		
	base circle 5 (nephroid)	0.5		
	spirograph	0.5		
Topic 12	snowflake curve	0.5		
	Sierpinski triangle	0.5		
	pop-up fractal	0.5		
Other	<i>supplementary investigations</i>	2.5		
	TOTAL	25		