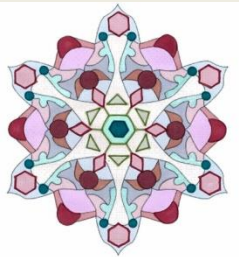


Tools of Investigation for the Beginning Mathematician

Mrs. Tammy L Jones

www.TLJConsultingGroup.com

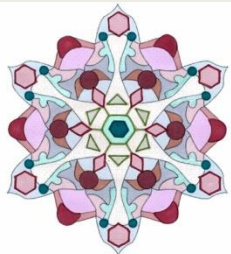


CCSSM

www.CoreStandards.org

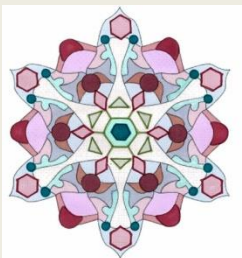
Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.



5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem.

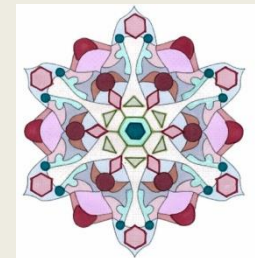


5. Use appropriate tools strategically.

Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations.

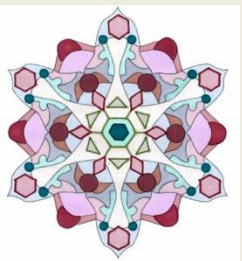
Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



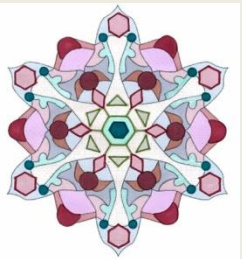
The SMP...

...describe ways in which developing student practitioners of the discipline of mathematics increasingly ought to engage with the subject matter as they grow in mathematical maturity and expertise throughout the elementary, middle and high school years.



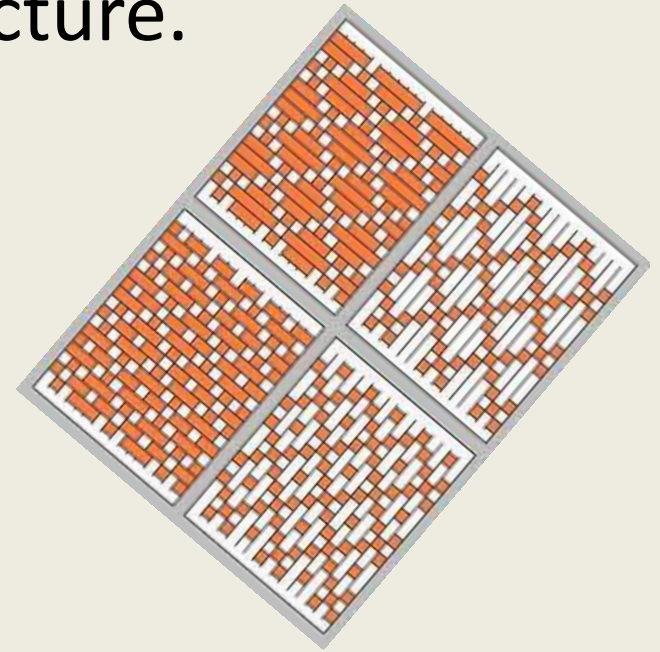
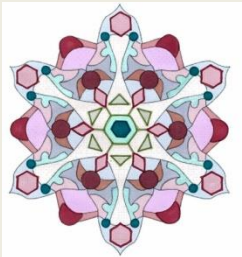
So...

Designers of curricula, assessments, and professional development should all attend to the need to connect the mathematical practices to mathematical content in mathematics instruction.



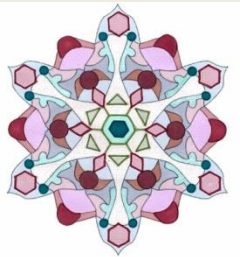
7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure.



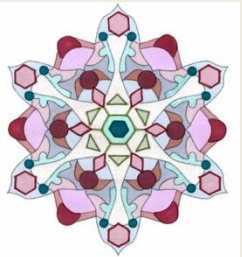
First Activity is available free...

<http://education.ti.com/>



CCSSE...

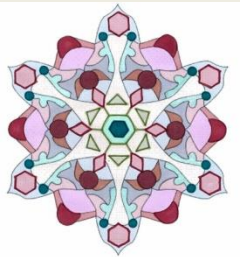
Informational Text:



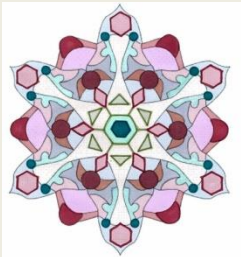
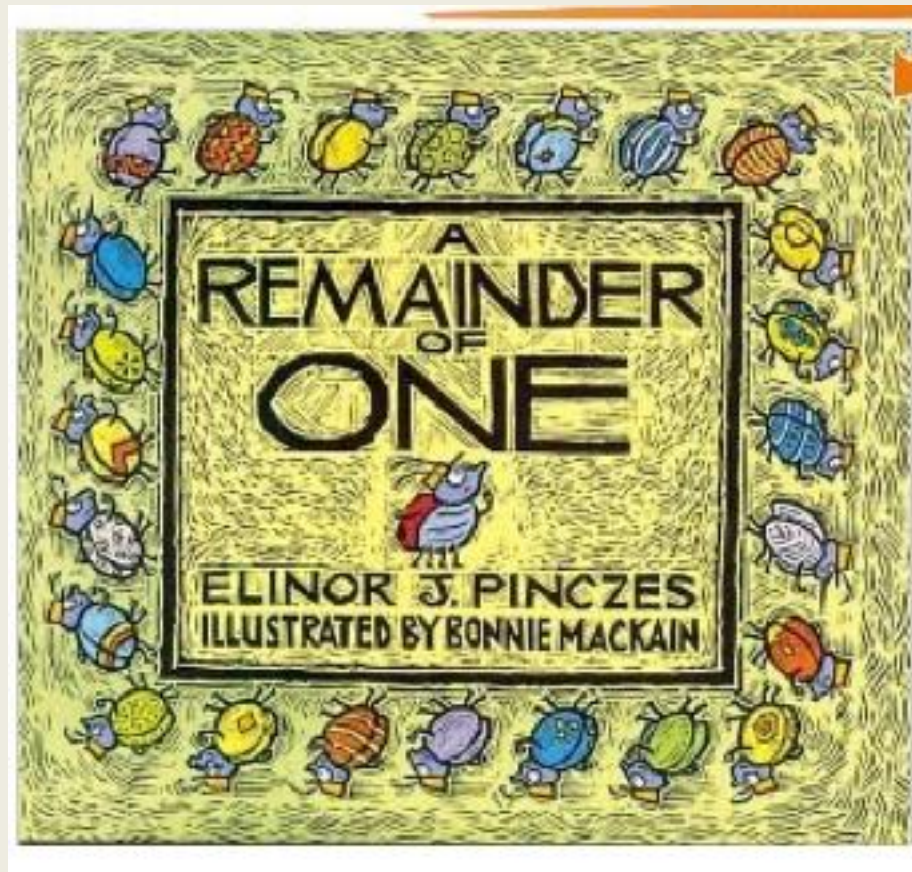
Second Activity is available free...

NCTM Illuminations:

<http://illuminations.nctm.org/LessonDetail.aspx?id=L818>



Mathematical Literacy



Q & A

The TI-10 and the TI-15: Tools of Investigation for the Beginning Mathematician

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