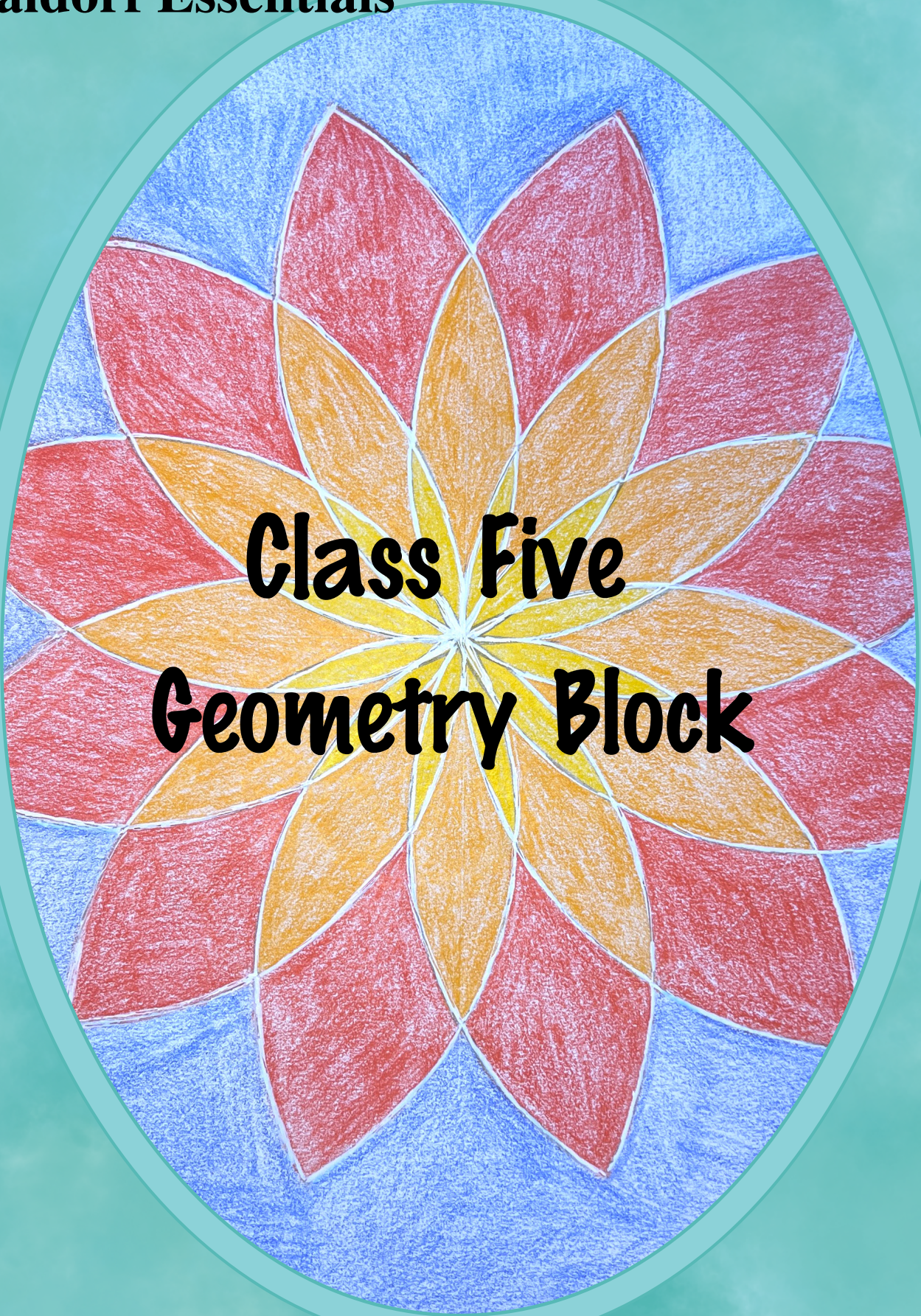


Waldorf Essentials



**Class Five
Geometry Block**

by Melisa & Erik Nielsen

Waldorf Essentials

Class Five Geometry Block

Auriel's Light

Contents

Weekly Main Lesson Breakdown 1

Main Lesson Content: Geometry Block 2

- Forms Review 2
- Making Circles with String 4
- Freehand Circles 5
- More Freehand Circles 6
- Nesting Squares 7
- Offset Nesting Squares 8
- Geometry Vocabulary 9
- Concentric Circles 9
- Circle to Ellipse 10
- Tangents 11
- Angles & Degrees 11
- Triangles 12
- Quadrilaterals 14
- Concentric Squares 15
- Parallelogram Star 17
- Using a Compass, Constructing Equilateral Triangles 17
- Constructing Isosceles Triangles 18
- Hexagons & Triangles 19
- More Hexagons 20
- Dodecagons 22

Resources and Supplies 24

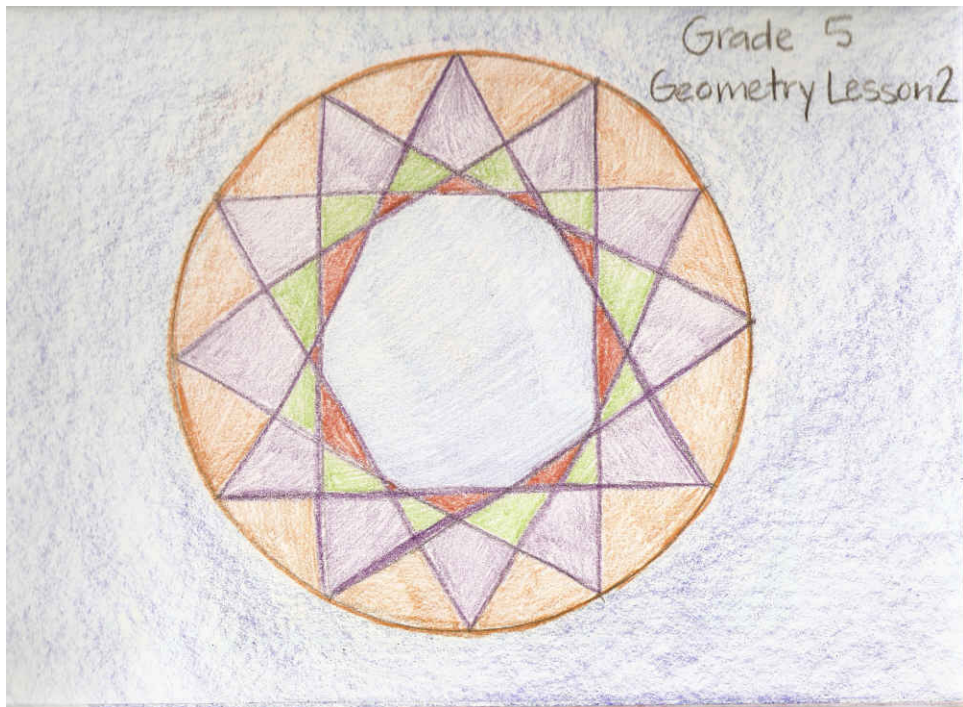
Waldorf Curriculum Chart 25

Additional Offerings 26

Weekly Main Lesson Breakdown

Geometry Block	
<p>Week 1 – Geometry</p> <ul style="list-style-type: none"><input type="checkbox"/> Lesson 1- Forms Review<input type="checkbox"/> Lesson 2 - Making Circles with String<input type="checkbox"/> Lesson 3 – Freehand Circles<input type="checkbox"/> Lesson 4 – More Freehand Circles	<p>Week 2 – Geometry</p> <ul style="list-style-type: none"><input type="checkbox"/> Lesson 5 - Nesting Squares<input type="checkbox"/> Lesson 6 – Offset Nesting Squares<input type="checkbox"/> Lesson 7a – Geometry vocabulary<input type="checkbox"/> Lesson 7b – Concentric Circles<input type="checkbox"/> Lesson 7c – Circle to Ellipse<input type="checkbox"/> Lesson 7d – Tangents<input type="checkbox"/> Lesson 8 – Angles & Degrees
<p>Week 3 – Geometry</p> <ul style="list-style-type: none"><input type="checkbox"/> Lesson 9a – Triangles<input type="checkbox"/> Lesson 9b – Quadrilaterals<input type="checkbox"/> Lesson 9c – Concentric Squares<input type="checkbox"/> Lesson 9d – Parallelogram Star<input type="checkbox"/> Lesson 10a – Using the Compass, Constructing Equilateral Triangles<input type="checkbox"/> Lesson 10b – Constructing Isosceles Triangles	<p>Week 4 – Geometry</p> <ul style="list-style-type: none"><input type="checkbox"/> Lesson 11 a&b – Hexagons & triangles<input type="checkbox"/> Lesson 11c – More Hexagons<input type="checkbox"/> Lesson 12 a&b – Dodecagons<input type="checkbox"/> Practice

Now that you have your circle constructed with triangles nestled inside, begin to make it beautiful. Your child may be asking for a ruler but remember that getting comfortable freehanded is a big part of these lessons. A ruler or straight edge and compass will come in later lessons, but right now we should focus on taking our time and getting comfortable with freehanded lessons. If your child has a tight wrist, perhaps work on handwork before this lesson or model with some clay to loosen things up a bit.



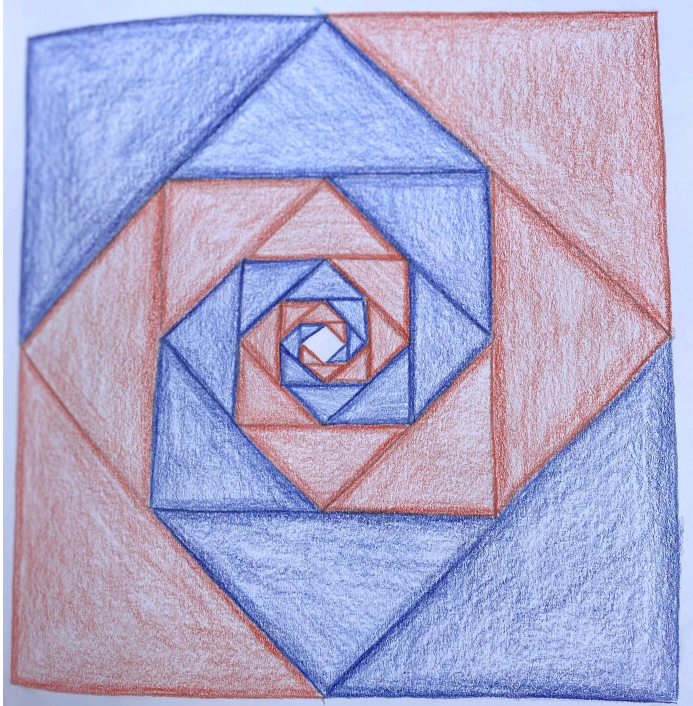
Geometry Block - Lesson 3, Freehand Circles

Review Lesson 2. The next few lessons will focus on getting your child comfortable with constructing circles with the string and pencil method learned in Lesson 2.

Consider a small organic farmer who wants to have a more efficient farm. He lives in a small house with a small yard. His farm is 4 acres square. He decides he should buy a center pivot to water his property but is trying to figure out which would be more cost effective, four smaller ones or one large one. Which solution looks better? I wonder. Discuss which one you think covers more ground. We are not giving an answer here; this is just getting them thinking. Working the exact problem is work for an older child.

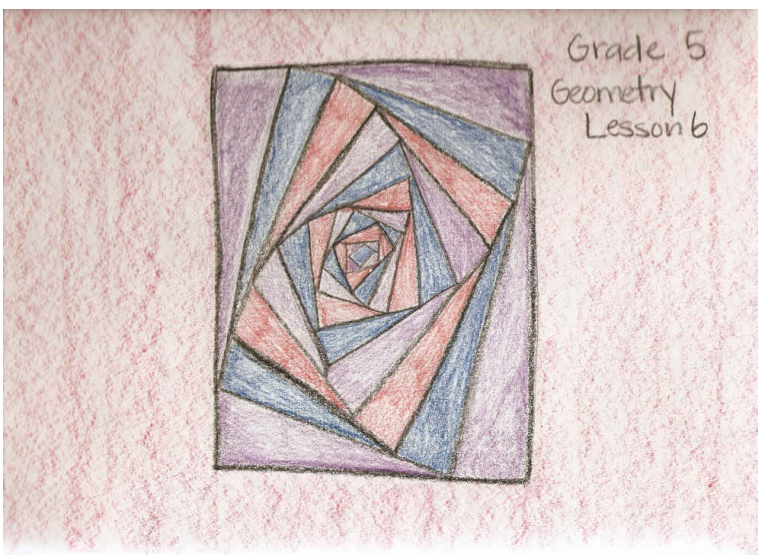
To construct this farm you'll want to first start with a circle inside a square. From the center, divide the square into quadrants, each with a smaller circle inside.

Here's another example. You can erase the circle and just focus on the nesting squares.



Geometry Block - Lesson 6, Offset Nesting Squares

Review Lesson 5. Construct a circle using the method introduced in Lesson 2. Within the circle, freehand alternating squares, only this time offset your squares to create a spiral. Be sure to take your time.





Geometry Block - Practice

Review all geometry. Take what you have learned, review and also have fun with some other constructions. Class Five is a time to get comfortable with the compass, so let them have fun and maybe do some different color choices for their finished products. You might also play with these shapes in window stars! These are a fun way to finish up this block.



Resources & Supplies

As always, my aim is to help you save money whenever possible. If you take really good care of your supplies, they will take care of you. I still have crayons and pencils that are nearly ten years old! Remember that wonderful supplies alone will not make beautiful lessons; planning and being prepared should be your first priority, supplies second.

Helpful tools for teaching Class Five Geometry:

- Lyra colored pencils
- Drawing paper – I prefer sketch pads; they are inexpensive and perfect for lesson drawings
- Main lesson books – these are optional; we really enjoy making our own from sketch paper
- A good compass, protractor, and ruler
- Kite paper

If you need help finding any of the above supplies, email us. We have some vendors that we work with regularly.

Waldorf Curriculum, Major Themes Grades 1 to 6

There is a more complete chart on our website in the Resources section.

<p>Grade 1 History, literature & LA</p> <ul style="list-style-type: none"> • Learning to read and write with the help of the fairy tales as a base for stories <p>Mathematics</p> <ul style="list-style-type: none"> • Counting, introduction to the four processes through stories <p>Geography & science</p> <ul style="list-style-type: none"> • Home surroundings <p>Languages –foreign languages can be taught, through song and culture, no tapes or TV</p> <p>Art & music</p> <ul style="list-style-type: none"> • Painting, drawing & modeling from lesson work • Knitting simple projects • Penny whistle or recorder & singing 	<p>Grade 2 History, literature & LA</p> <ul style="list-style-type: none"> • Fables & saint stories to continue the reading journey, local folklore <p>Mathematics</p> <ul style="list-style-type: none"> • Continue with times tables, time & money, extending skills with the four processes <p>Geography & sciences</p> <ul style="list-style-type: none"> • More home study surroundings, observing animals from their fables work <p>Continue language study</p> <p>Art & music</p> <ul style="list-style-type: none"> • Continue painting, drawing & modeling from lesson work • Begin knitting more complicated projects • Continue with instrument & singing 	<p>Grade 3 History, literature & LA</p> <ul style="list-style-type: none"> • Biblical stories as part of history • Full introduction to parts of speech, begin sentence structure <p>Mathematics</p> <ul style="list-style-type: none"> • Continue times tables, begin measurement, place value, carrying & borrowing <p>Geography & sciences</p> <ul style="list-style-type: none"> • Cycles of the year • Farming, homes and dwellings, clothing, etc. <p>Continue language study</p> <p>Art & music</p> <ul style="list-style-type: none"> • Continue painting, drawing & modeling • Begin crocheting • Continue with instrument & singing
<p>Grade 4 History, literature & LA</p> <ul style="list-style-type: none"> • Stories from Norse myth, local history • Poetry, deepen grammar work, spelling <p>Mathematics</p> <ul style="list-style-type: none"> • Long divisions/multiplication, fractions, averaging, proofs, factoring <p>Geography & science</p> <ul style="list-style-type: none"> • Zoology, man & animal and their relationships • Local geography, being aware of local plant life <p>Continue language study</p> <p>Art & music</p> <ul style="list-style-type: none"> • Continue painting, drawing & modeling, more complex • Sewing, embroidery, cross stitch • Continue with blowing instrument & singing • Orchestra or string instrument 	<p>Grade 5 History, literature & LA</p> <ul style="list-style-type: none"> • Stories from ancient cultures & history, India, Persia, Mesopotamia, Egypt, Greece, up to Alexander the Great • Writing longer compositions <p>Mathematics</p> <ul style="list-style-type: none"> • Geometry as part of drawing • Decimals, fractions, metric system <p>Geography & science</p> <ul style="list-style-type: none"> • Botany, plant and earth relationship • Zoology, a continuation • Geography of your own country <p>Continue language study</p> <p>Art & music</p> <ul style="list-style-type: none"> • Continue painting, drawing & modeling, more complex • Four needle knitting • Continue with blowing instrument & singing • Orchestra or string instrument 	<p>Grade 6 History, literature & LA</p> <ul style="list-style-type: none"> • Rome, Life of Christ & Muhammad, Medieval society • Writing is more in depth <p>Mathematics</p> <ul style="list-style-type: none"> • Geometry • Business math, pre-algebra <p>Geography & science</p> <ul style="list-style-type: none"> • Geography of Canada, Latin America, & countries being studied • Physics, geology, more botany <p>Continue language study</p> <p>Art & music</p> <ul style="list-style-type: none"> • Continue painting, drawing & modeling, more complex • Sewing • Continue with blowing instrument & singing • Orchestra or string instrument

Child Development

BIRTH TO TWENTY-ONE



melisa nielsen



Waldorf Essentials

CURRICULUM. COACHING. COMMUNITY.

www.waldorfessentials.com

If you have questions or need
support emails us at:
team@melisanielsen.com