LINCOLN-WOODSTOCK COOPERATIVE SCHOOL DISTRICT
COURSE SYLLABUS

Grade: 4
Teacher: Emma Doubman and Krystyn Fadden

Description: This syllabus provides an overview of each of the major subject areas taught in 3rd grade. For each subject area, the sequence of units/modules and aligned essential questions/enduring understandings and academic standards are provided.

Learning Outcomes:

In addition to the ELA, math, science, and social studies standards documented below, 4th graders are also actively working toward our Portrait of a Learner competencies reflected in our 3-5 Portrait of a Learner rubrics:

- 3-5 Independent Learner
- 3-5 Responsible Collaborator
- 3-5 Effective Communicator
- 3-5 Critical Thinker
- 3-5 Global Citizen

Anchor Texts or Major Curriculum:

- Eureka Math Squared - Math
- Wit and Wisdom

MATH		
Unit Title	Essential Question or Overarching Understanding	Standards or Competencies Assessed
Module 1: Place Value Concepts for Addition and Subtraction	**Topic A:** Multiplication as Multiplicative Comparison **Topic B:** Place Value and Comparison Within 1,000,000 **Topic C:** Rounding Multi-Digit Whole Numbers **Topic D:** Multi-Digit Whole	**Topic A:** 4.OA.A.1, 4.OA.A.2 **Topic B:** 4.OA.A.1, 4.NBT.A.1, 4.NBT.A.2, 4.NBT.A.2, **Topic C:** 4.OA.A.3,

	Number Addition and Subtraction **Topic E:** Metric Measurement Conversion Tables	4.NBT.A.2, 4.NBT.A.3, **Topic D**: 4.OA.A.3, 4.NBT.B.4, **Topic E:** 4.MD.A.1, 4.MD.A.2
Module 2: Overview Place Value Concepts for Multiplication and Division	**Topic A:** Compose and Decompose Units of Ten **Topic B:** Multiplication of Tens and Ones by One-Digit Numbers **Topic C:** Division of Tens and Ones by One-Digit Numbers **Topic D:** Problem Solving with Measurement **Topic E:** Factors and Multiples	**Topic A:** 4.NBT.B.5, 4.NBT.B.6, 4.MD.A.3 **Topic B:** 4.OA.A.2, 4.NBT.B.5, 4.MD.A.3 **Topic C:** 4.NBT.B.6, **Topic D:** 4.OA.A.2, 4.MD.A.1, 4.MD.A.2, 4.MD.A.2, 4.MD.A.3 **Topic E:** 4.OA.B.4, 4.OA.B.4, 4.OA.B.4, 4.OA.C.5,
Module 3: Multiplication and Division of Multi-Digit Numbers	**Topic A:** Multiplication and Division of Multiples of Tens, Hundreds, and Thousands **Topic B:** Division of Thousands, Hundreds, Tens, and Ones **Topic C:** Multiplication of up to Four-Digit Numbers by One-Digit Numbers **Topic D:** Multiplication of Two-Digit Numbers by Two-Digit Numbers **Topic E:** Problem Solving with Measurement **Topic F:** Problem Solving with Measurement	**Topic A:** 4.NBT.B.5, 4.NBT.B.6 **Topic B:** 4.NBT.B.6 **Topic C:** 4.NBT.B.5, **Topic D:** 4.NBT.B.5, **Topic E:** 4.MD.A.1, 4.MD.A.2 **Topic F** 4.OA.A.3, 4.NBT.B.6,
Module 4: Foundations for Fraction Operations	**Topic A:** Fraction Decomposition and Equivalence **Topic B:** Equivalent Fractions **Topic C:** Compare Fractions **Topic D:** Add and Subtract Fractions **Topic E:** Add and Subtract Mixed Numbers **Topic F:** Repeated Addition	**Topic A:** 4.NF.B.3.a, 4.NF.B.3.b **Topic B:** 4.NF.A.1, **Topic C:** 4.NF.A.2, **Topic D:** 4.NF.B.3.a, 4.NF.B.3.b, 4.NF.B.3.d, 4.MD.A.2

	of Fractions as Multiplication	**Topic E:** 4.NF.B.3.c, 4.NF.B.3.d, 4.MD.A.2, 4.MD.B.4 **Topic F:** 4.NF.B.4.a, 4.NF.B.4.b, 4.NF.B.4.c, 4.MD.A.2
Module 5: Place Value Concepts for Decimal Fractions	**Topic A:** Exploration of Tenths **Topic B:** Tenths and Hundredths **Topic C:** Comparison of Decimal Numbers **Topic D:** Addition of Tenths and Hundredths	**Topic A:** 4.NF.C.6 **Topic B:** 4.NF.C.5, 4.NF.C.6 **Topic C:** 4.NF.C.7 **Topic D:** 4.NF.C.5, 4.MD.A.2
LITERACY		
Unit Title	Essential Question or Overarching Understanding	Standards or Competencies Assessed
Wit and Wisdom Module 1: A Great Heart	What does it mean to have a great heart, literally and figuratively?	RI.4.2, RI.4.4 RI.4.7, RI.4.10 RL.4.2, RL.4.5, RL.4.10 W.4.2, W.4.8 L.4.1.d, L.4.2.a, L.4.2.b, L.4.2.c, L.4.5.a, L.4.6 SL.4.1.b,
Wit and Wisdom Module 2: Extreme Settings	How does a challenging setting or physical environment change a person?	RL.4.1 RL.4.3, RL.4.10, RI.4.1, RI.4.5, RI.4.10 W.4.2, W.4.3, W.4.4, W.4.5, W.4.8 SL.4.4, SL.4.5, SL.4.6 L.4.1.a, L.4.1.e, L.4.3.a, L.4.3.b, L.4.4.a, L.4.4.b, L.4.5.a, L.4.6
SCIENCE		
Unit Title	Essential Question or Overarching Understanding	Standards or Competencies Assessed
Human Body, Vision, and the Brain	Unit Question: How do the internal and external structures of the human body work together to help us survive and function?	4-LS1-1, 4-LS1-2: Internal/external structures and brain function support survival

	Mysteries: ● Why do your biceps bulge? ● What do people who are blind see? ● How can some animals see in the dark? ● How does your brain control your body?	
Animal and Plant Adaptations	Unit Question: How do the structures of plants and animals enable them to survive, grow, and reproduce in their environments? Mysteries: ● Why do some sea creatures look so strange? ● Why would a sea turtle eat a plastic bag? ● Why don't the same trees grow everywhere?	4-LS1-1, 4-LS1-2: Organism adaptation to environment
Earth's Features and Processes	Unit Question: How can we identify rocks and understand their history? Mysteries: ● Could a volcano pop up where you live? ● Why do some volcanoes explode? ● Will a mountain last forever? ● How could you survive a landslide?	4-ESS1-1, 4-ESS2-1, 4-ESS2-2: Earth's landscape changes through rock formation, volcanoes, and weathering
Sound, Waves, and Communication	Unit Question: How do you send a secret code? Mysteries:	4-PS4-1: Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.

	• How far can a whisper travel? • What would happen if you screamed in outer space? • Why are some sounds high and some sounds low? • How can you make a sound louder? • How do you send a secret code?	4-PS4-3: Generate and compare multiple solutions that use patterns to transfer information
Energy and Energy Transfer	Unit Question: What is energy, how is it transferred, and how does it create motion? Mysteries: • How far can a whisper travel? • What makes roller coasters go so fast? • Why is the first hill of a roller coaster always the highest? • Could you knock down a building using only dominoes?	4-PS3-1, 4-PS3-3, 4-PS4-1: Energy, speed, and sound transfer
SOCIAL STUDIES		
Unit Title	Essential Question or Overarching Understanding	Standards or Competencies Assessed
Geography	What physical and human characteristics define New Hampshire? How did New Hampshire's boundaries and regions come to be the way they are today? How has the way people explored and represented New Hampshire changed over time?	D2.Geo. 2.3-5 D2.Geo. 3.3-5 D2.Geo. 4.3-5 D2.Geo. 5.3-5 D2.Geo. 6.3-5

	How does where you live impact how you live?	
NH History	How has New Hampshire come to be the way it is? How has New Hampshire been shaped by many voices?	D2.Geo.7.3-5 D2.Geo .8.3-5 D2.His. 2.3-5 D2.His. 3.3-5 D2.His. 4.3-5 D2.His. 5.3-5

Portrait of a Learner

Independent Learner
I make thoughtful plans and do my best to reach personal goals using feedback to work through challenges.

Responsible Collaborator
I work with others to achieve shared goals by listening actively, contributing ideas, and managing conflict.

Critical Thinker
I analyze information, ask thoughtful questions, and apply reasoning skills to solve problems and make decisions.

Effective Communicator
I express ideas clearly, adapting strategies based on the audience, setting, and/or purpose.

Global Citizen
I show that I care and take responsibility by helping in my community and the world around me.