

# Eureka Math and Things You Can Do at Home

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## Grade 3

### Module 1

- Have your child set out groups of small objects in arrays (equal groups in rows and columns) and write the accompanying multiplication equation
- Encourage your child to practice multiplication facts for 2s, 3s, 4s, 5s, and 10s until they know them fluently

### Module 2

- Ask your child to help with all kinds of measurement around the house
- Continue to practice telling time, and begin to ask questions about elapsed time, e.g., “How many minutes passed since we got home from school?”

### Module 3

- Continue to review multiplication and division facts with your child
- Help your child notice related math facts, e.g.  $4 \times 2 = 8$ ,  $4 \times 20 = 80$ ,  $40 \times 2 = 80$

### Module 4

- Continue to review multiplication and division facts with your child
- Practice drawing simple two-dimensional rectangular shapes and calculating the area using multiplication

### Module 5

- Continue to review multiplication and division math facts with your child
- Help your child practice partitioning household items (pieces of paper, portions of food, a pack of crayons, etc.) into equal parts

### Module 6

- Ask your child to help interpret the data when you see simple graphs and charts in books, newspapers, or product packaging
- Continue to practice and encourage measurement around the house, especially with inches, and parts of an inch.

### Module 7

- Ask your child about the attributes of basic shapes that you encounter (how many sides, are the angles equal, are the sides the same length, are they parallel, etc.)

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## Grade 4

### Module 1

- When given a large, multi-digit number, ask your child what each digit represents (e.g. “What does the 4 signify in the number 34,500?” Answer: 4,000)
- Help practice writing numbers correctly by saying large numbers and having your child write them down. They can create their own place value charts to help.

### Module 2

- If you have metric measurement tools at home, encourage your child to measure objects around the house
- Continue to talk about place value patterns with your student, e.g. How many 10s in 100? How many 100s in 1000?

### Module 3

- Continue to review the place value system with your child
- Discuss mathematical patterns, such as  $5 \times 9$ ,  $5 \times 90$ ,  $50 \times 90$ ,  $50 \times 900$ , etc.

### Module 4

- Practice adding to make 90, 180, 270 and 360, as well as subtracting from those numbers.

### Module 5

- Continue to practice and review multiplication and division math facts – this greatly supports work with fractions!
- Look for opportunities in daily life to discuss fractional parts and divide objects into equal parts.

### Module 6

- Continue to practice and review multiplication and division facts – this greatly supports work with fractions!
- In any decimal number, ask your child the value of each digit, e.g., the 4 in 5.4 is 4 tenths

### Module 7

- As often as possible, notice and discuss customary units like ounces and pounds with your child
- Review time by asking questions such as “How many more minutes until the next hour?” or “How many hours until the next day?”

# Eureka Math and Things You Can Do at Home

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## Grade 5

### Module 1

- When given a multi-digit number with decimal digits, ask your child what each digit represents (e.g., “What is the value of the 4 in the number 37.346?” Answer: “The value of the 4 in 37.346 is 4 hundredths.”)
- Help practice writing numbers correctly by saying multi-digit decimal numbers and having your child write them down. Children can create their own place value charts to help.

### Module 2

- Continue to review the place value system with your child
- Discuss mathematical patterns, such as  $5 \times 9$ ,  $5 \times 90$ ,  $50 \times 90$ ,  $50 \times 900$ , etc.

### Module 3

- Look for opportunities in daily life to discuss fractional parts of a whole, e.g. pieces of pizza, parts of an hour, distances to familiar places
- Continue to practice and review multiplication and division facts – this greatly supports work with fractions!

### Module 4

- Continue to practice and review multiplication and division math facts – this greatly supports work with fractions!
- Look for opportunities in daily life to discuss both fractional parts of a whole and of other fractions, e.g. What is  $\frac{1}{4}$  of 20?  $\frac{1}{4}$  of  $\frac{1}{2}$ ?

### Module 5

- Begin to discuss and notice the volume of various household containers – this is also a good opportunity to talk about what units are used to measure volume.
- Keep practicing those multiplication and division facts, especially as problems become more complex.

### Module 6

- Play the game Battleship, if you have it. It gives good practice with locating points on a coordinate plane.
- Practice following rules to find ordered pairs, e.g. If the rule is  $y = \text{double } x \text{ plus } 1$ , what is  $y$  if  $x$  is 3? 4? 5? (Answers are 7, 9, 11)