



TIPS REFERENCES

- Epstein, J. L. (2011). Homework practices, achievements, and behaviors of elementary school students (chapter 3) and Linking family and community involvement to student learning (chapter 6). In *School, family, and community partnerships: Preparing educators and improving schools. Second Edition*, (pp. 231-246 and pp. 493-554, 562-569). Boulder, CO: Westview Press.
- Epstein, J. L. (2017). *Manual for teachers: Interactive Homework in the Elementary Grades*. (Literacy K-3, Mathematics, K-5, and Science, Grade 3). Baltimore: Center on School, Family and Community Partnerships, Johns Hopkins University.
- Epstein, J. L., & Van Voorhis, F. L. (2001). More than minutes: Teachers' roles in designing homework. *Educational Psychologist*, 36, 181-194.
- Epstein, J. L., & Van Voorhis, F. L. (2009). Implement Teachers Involve Parents in Schoolwork (TIPS). In Epstein, et al., *School, Family, and Community Partnerships: Your Handbook for Action, Third Edition and CD*, (pp. 275-306) Thousand Oaks, CA: Corwin Press.
- Epstein, J. L., & Van Voorhis, F. L. (2012). The changing debate: From assigning homework to designing homework. In S. Suggate & E. Reese (Eds.), *Contemporary debates in child development and education*, (pp. 263-273). London: Routledge.
- Van Voorhis, F. L. (2004). Reflecting on the homework ritual: Assignments and designs. *Theory Into Practice*, 43:205-212.
- Van Voorhis, F. L. (2009). Does family involvement in homework make a difference? Investigating the longitudinal effects of math and language arts interventions. In R. Deslandes (ed.), *Family-school-community partnerships international perspectives*, (pp. 141-156). New York: Taylor and Francis Group/Routledge.
- Van Voorhis, F. L. (2011a). Adding families to the homework equation: a longitudinal study of family involvement and mathematics achievement. *Education and Urban Society*, 43, 313-338.
- Van Voorhis, F. L. (2011b). Costs and benefits of family involvement in homework. *Journal of Advanced Academics*, 22, 220-249.
- Van Voorhis, F. L. (2011c). Engaging families in student homework: action steps for educators. Pp. 71-84 in H. Kreider and H. Westmoreland (Eds.), *Promising Practices for Family Engagement in Out-of-school Time*. Charlotte, NC: Information Age Publishing.

See manual for teachers in the elementary grades and list of resources at www.partnershipschools.org in the section for TIPS.

Center on School, Family, and Community Partnerships
and National Network of Partnership Schools
Johns Hopkins University
2800 North Charles Street, Suite 420
Baltimore, MD 21218

Contact: Dr. Joyce Epstein, Director
t. 410-516-2318 f. 410-516-5572
www.partnershipschools.org nnps@jhu.edu



Interactive Homework

Teachers Involve Parents in Schoolwork

TIPS Activities for the Elementary Grades

Over 300 prototype TIPS activities

- **LITERACY**
Grades K-3
- **MATH**
Grades K-5
- **SCIENCE**
Grade 3 (Samples)

Joyce L. Epstein, Frances L. Van Voorhis,
and Karen Clark Salinas

 NATIONAL NETWORK OF
Partnership Schools
JOHNS HOPKINS UNIVERSITY
Working Together for Student Success

© 2020

Overview

Researchers worked with teachers to design, implement, and test the process called **Teachers Involve Parents in Schoolwork (TIPS)**.

TIPS activities require students to talk with someone at home about something interesting that they are learning in class. TIPS solves some important problems with homework:

- TIPS helps all parents become involved, not just the few who are comfortable with school subjects.
- TIPS activities include a section for students and parents to discuss how a school skill is used in the real world.
- TIPS includes a section for home-to-school communications for parents' comments or questions.

Studies show that, overwhelmingly, parents recognize and appreciate teachers' efforts to keep them informed and involved. There are positive results for student learning, homework completion, and attitudes about homework.

TIPS Resources

- Over 300 prototype TIPS activities are on the CD for the elementary grades in early literacy (grades K-3), math (grades K-5) and science (grade 3).
- Manuals for teachers in the elementary and middle grades.
- CD with over 350 TIPS activities for the middle grades in math, science, and language arts.

See more information and an order form at www.partnershipschools.org in the TIPS section.

Acknowledgements

Thanks to the many teachers and curriculum leaders in districts and schools and colleagues and students at Johns Hopkins University who assisted in the development of prototype activities for TIPS Math, Science, and Early Literacy in the elementary grades.

Special acknowledgements go to Dr. Frances Van Voorhis, Karen Clark Salinas, and Marsha D. Greenfeld who worked on many aspects of TIPS development. Thanks, too, to R. Tyler Ames and Megumi G. Hine for technical assistance with TIPS resources.

Over the years, this work was supported by grants from the Disney Learning Partnership, U.S. Department of Education-Office of Educational Research and Improvement (OERI), Edna McConnell Clark Foundation, MetLife Foundation, Colorado Department of Education, and the Center on School, Family, and Community Partnerships at Johns Hopkins University.

TIPS MATH

Grade 4

- M4-1 Change Words to Numbers
- M4-2 Identify Place Value
- M4-3 Compare Numbers Using $<$, $>$, or $=$
- M4-4 Round to the Nearest Ten
- M4-5 Round to the Nearest Hundred
- M4-6 Round to the Nearest Thousand
- M4-7 Add 4 Digits with Regrouping
- M4-8 Subtract 4 Digits with Regrouping
- M4-9 Multiply by 10, 100, 1000
- M4-10 Multiply by 1 Digit with Regrouping
- M4-11 Multiply by Tens, Hundreds, or Thousands
- M4-12 Multiply by 2 Digits with Regrouping
- M4-13 Divide 2 Digits by 1 Digit
- M4-14 Divide 2 Digits by 1 Digit with a Remainder
- M4-15 Divide 2 Digits by Multiples of Ten
- M4-16 Add Fractions with Like Denominators
- M4-17 Subtract Fractions with Like Denominators
- M4-18 Change Improper Fractions to Mixed Numbers
- M4-19 Change Mixed Numbers to Fractions
- M4-20 Equal Fractions
- M4-21 Add Unlike Fractions
- M4-22 Subtract Unlike Fractions
- M4-23 Compare Fractions Using $>$, $<$, or $=$
- M4-24 Place Value
- M4-25 Congruent Figures
- M4-26 Lines, Line Segments, and Rays
- M4-27 Intersecting, Parallel, and Perpendicular Lines
- M4-28 Identify Angles
- M4-29 Find the Perimeter of a Polygon
- M4-30 Word Problems - Addition or Subtraction?
- M4-31 Word Problems - Multiplication
- M4-32 Word Problems - Addition, Subtraction, and Multiplication

Grade 5

- M5-1 Add up to 4 Digits
- M5-2 Add up to 4 Digits with Regrouping
- M5-3 Addition Word Problems
- M5-4 Subtract up to 4 Digits
- M5-5 Subtract up to 4 Digits with Regrouping
- M5-6 Subtraction Word Problems
- M5-7 Addition and Subtraction Word Problems
- M5-8 Multiplication Patterns
- M5-9 Multiply up to 3 Digits by 1 Digit
- M5-10 Short Form Multiplication
- M5-11 More Short Form Multiplication
- M5-12 Multiplication Word Problems
- M5-13 Multiply up to 3 Digits by 2 Digits
- M5-14 Divide Tens and Ones
- M5-15 Division Word Problems
- M5-16 Estimate Tens in the Quotient
- M5-17 Division with Remainders
- M5-18 Solve and Check Division Problems
- M5-19 Divide Thousands, Hundreds, Tens, and Ones
- M5-20 Use Division to Find the Fractional Part of a Set
- M5-21 Add Like Fractions
- M5-22 Subtract Like Fractions
- M5-23 Add and Subtract Mixed Numerals
- M5-24 Write Fractions in Lowest Terms
- M5-25 Write Equivalent Fractions
- M5-26 Compare Unlike Fractions
- M5-27 Identify and Name Points, Lines, Line Segments, and Rays
- M5-28 Acute, Right, and Obtuse Angles
- M5-29 Read and Write Numerals to
- M5-30 Roman Numerals

TIPS MATH**Grade 2**

- | | |
|--|--|
| M2-1 Counting by 2s, 5s, and 10s | M3-5 Addition – Regrouping Tens to Hundreds |
| M2-2 Write Ones, Tens, and Hundreds | M3-6 Addition – Regrouping Ones to Tens and Tens to Hundreds |
| M2-3 How Many Tens, Ones, and Hundreds? | M3-7 Make Money |
| M2-4 Identify Equal Parts | M3-8 Subtraction – Regrouping Tens for Ones |
| M2-5 Match $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{5}$ to Shaded Regions | M3-9 Subtraction – Regrouping Hundreds for Tens |
| M2-6 Match Fractions to Shaded Parts | M3-10 Subtraction – Regrouping Thousands for Hundreds |
| M2-7 Add 2-Digit Numbers without Regrouping | M3-11 Add and Subtract (to 99) |
| M2-8 Addition Word Problems through 100 | M3-12 Short Word Problems with 3-Digit Numbers |
| M2-9 Subtract 2-Digit Numbers without Regrouping | M3-13 Subtraction – One Step Word Problems |
| M2-10 Subtraction Word Problems through 100 | M3-14 Word Problems – Add or Subtract with Regrouping |
| M2-11 Subtract 3-Digit Numbers | M3-15 Word Problems – More Addition or Subtraction |
| M2-12 Addition with Regrouping | M3-16 Addition and Subtraction – Two Step Word Problems |
| M2-13 More Addition with Regrouping | M3-17 Inequalities |
| M2-14 Subtraction with Regrouping | M3-18 Inequalities – Addition and Subtraction |
| M2-15 More Subtraction with Regrouping | M3-19 Round to the Nearest 10 |
| M2-16 Create Addition Word Problems to 100 | M3-20 Round to the Nearest 100 |
| M2-17 Addition and Multiplication Are Related! | M3-21 Round to the Nearest 10's and 100's |
| M2-18 Multiplication Word Problems | M3-22 Metric Measurement |
| M2-19 Divide Sets Equally | M3-23 Multiply by 1-Digit Numbers |
| M2-20 Multiplication and Division are Related! | M3-24 Multiply Numbers to 9 |
| M2-21 Use a Graph | M3-25 Find the Missing Factor |
| M2-22 Count Money | M3-26 Divide without Remainders |
| M2-23 Add and Subtract Money | M3-27 More Division with Remainders |
| M2-24 Use =, <, and > | M3-28 Word Problems Involving Time |
| M2-25 Number Order | M3-29 Fractional Parts |
| M2-26 Tell Time to the Nearest 15 Minutes | M3-30 Words and Fractions |
| M2-27 Tell Time to the Nearest 5 Minutes | M3-31 Compare Fractions |
| M2-28 Time Word Problems | M3-32 Order Fractions |
| M2-29 Metric Measurement (Centimeters) | M3-33 Bar Graphs |

Grade 3

- | | |
|---|---|
| M3-1 Write 3-Digit Numbers | M3-38 Diameter and Radius of a Circle |
| M3-2 Numbers in Expanded Forms | M3-39 Find the Perimeter of Shapes |
| M3-3 Add Three Numbers | M3-40 Addition, Multiplication, Subtraction, and Division Facts |
| M3-4 Addition – Regrouping Ones to Tens | |

TIPS LITERACY**Grade K**

- | |
|---|
| K #1 My Tool Box – Picture Clues |
| K #2 I Am in Kindergarten! – Communication |
| K #3 My Community – Drawing & Labeling |
| K #4 Oh, the Places We Can Go! – Writing a List |
| K #5 Rules Rule – Retelling & Communication |
| K #6 This Is What Happened – Informational Text & Comprehension |
| K #7 Fall Fun! – Information Text & Comprehension |
| K #8 My Favorite Holiday – Environmental Words |
| K #9 Letter Game – Beginning Sounds & Letter Sounds |
| K #10 First, Second, Third – Draw In Sequence |
| K #11 Go Fish – Letter Recognition |
| K #12 Put the Alphabet in Order – Alphabetical Order |
| K #13 What's Cooking? – "How To" Writing |
| K #14 Get Moving! – Conversation |
| K #15 We Love Rhyme Time – Rhyming Words |
| K #16 All in the Word Family – Decoding Words in Print |
| K #17 Brrr...Baby It's Cold Outside – Descriptive Sentence |
| K #18 The Mouse and the Clock – Literary Text & Comprehension |
| K #19 Feelings – Communication & Nonverbal Skills |
| K #20 Beginning and End – Decode Grade Level Text |
| K #21 In My World – Decoding Environmental Print |
| K #22 Do You Want It or Need It? – Persuasive Writing |
| K #23 Pack the Bags! – Communication |
| K #24 All About Me – Autobiography |

Grade 1

- | |
|--|
| 1 #1 Words and Pictures Go Together – Comprehension-Words & Pictures |
| 1 #2 Word Groups – Develop Vocabulary |
| 1 #3 Can You Hear Me? – Identifying Phonemes |
| 1 #4 Sound It Out – Identifying Sounds in Spoken Words |
| 1 #5 Good Partners – Conversations |
| 1 #6 What a Character! – Character Traits |
| 1 #7 Express Yourself – Reading Fluency |
| 1 #8 What's Your Story? – Using Pictures To Tell About Story Events |
| 1 #9 Ship Shape Sounds – "sh" Diagram |
| 1 #10 Put an End to It – Inflectional Endings |
| 1 #11 Silent "e" Follows a Rule – Silent E |
| 1 #12 Compound Words – Compound Words |
| 1 #13 Words Have Families – Word Families |
| 1 #14 What's the Big Idea? – Main Idea |
| 1 #15 1,2,3 – Beginning, Middle & End/Sequencing |
| 1 #16 Put It All Together – Use A Bubble Map – Organizing Ideas |
| 1 #17 Start and Finish – Sentence Conventions |
| 1 #18 Upper Case Letters – Capitalization |
| 1 #19 Picture My Story – Text Features |
| 1 #20 Getting to Know You – Asking Questions |
| 1 #21 How To Do It – Tell "How To" |
| 1 #22 Make a Word Picture – Adjectives |



TIPS LITERACY

Grade 2

- | | |
|--|---|
| 2 #1 What Did You Say? – Different Styles Of Communication | 3 #8 Total Recall – Point Of View |
| 2 #2 What's Happening? – Making Inferences | 3 #9 Contrasting Characters – Compare & Contrast Characters |
| 2 #3 How Does This Sound? – Vowel Sounds & Syllables | 3 #10 Using Antonyms and Synonyms – Antonyms & Synonyms |
| 2 #4 What is YOUR Point of View? – Different Perspectives | 3 #11 Mystery Postcard – Drawing Conclusions |
| 2 #5 Superhero or Good Idea? – Communication Skills | 3 #12 What Happens Next? – Sequence |
| 2 #6 Picture This – Importance Of Illustrations | 3 #13 What Do You Recommend? – Supporting An Opinion |
| 2 #7 HELP! – Character Traits | 3 #14 New Words from Old – Prefixes |
| 2 #8 Sum It Up in a Caption – Text Features - Captions | 3 #15 It All Adds Up – Summary Plan |
| 2 #9 Helping Hands – Sentence Structure | 3 #16 Speak a Summary – Summarizing a Story |
| 2 #10 Family Traditions – Writing about a Family Tradition | 3 #17 Spooky Adjectives – Adjectives |
| | 3 #18 Now Featuring... – Text Features |
| | 3 #19 Tell Me How to Do That – "How To" Writing |
| | 3 #20 What's the Big Idea – Main Ideas |
| | 3 #21 Come On, Comma! – Punctuation |

2 #11 Family Traditions – Reading Fluency

2 #12 Zoo Mix-Up – Syllables

2 #13 Guess the Invention – Context Clues

2 #14 Tricky Words – Irregular Sight Words

2 #15 Step by Step – Sequencing

2 #16 Use the Clues – Picture Clues

2 #17 Listen for Clues – Active Listening

2 #18 A Frog's Life Cycle – Sequential Order

2 #19 The Prefix Builder –Prefixes

2 #20 I'm in Hot Water! – Figurative Language

2 #21 A Pair of Pears – Homonyms

Grade 3

3 #1 In My Own Words – Paraphrasing

3 #2 Follow the Leader – Interact with Others

3 #3 Poems Rhyme or Not – Comparing Poems on the Same Topic

3 #4 Why Do You Want THAT? – Persuasive Writing

3 #5 Guess What? – Using Descriptive Words

3 #6 What Caused That? – Cause & Effect

3 #7 It Was a Good Day – Beginning, Middle & End

TIPS SCIENCE

Grade 3

- | |
|---|
| S3-1 Living and Non-Living Things |
| S3-2 The Importance of Animals |
| S3-3 Animal Habitats |
| S3-4 The Importance of Plants |
| S3-5 Plant Growth – Let's Grow Together |
| S3-6 Three Forms of Matter |
| S3-7 Physical Changes –Solid-Liquid-Gas |
| S3-8 Rocks and Their Properties |
| S3-9 Weather Patterns |



TIPS MATH

Kindergarten

- MK- 1 Small
MK- 2 Large
MK- 3 Big & Little
MK- 4 Long & Short
MK- 5 Same & Not the Same
MK- 6 Same & Different
MK- 7 Different & Same
MK- 8 Add to a Set
MK- 9 Holds More
MK- 10 Holds Less
MK- 11 Match Shapes
MK- 12 Circles
MK- 13 Rectangles
MK- 14 Triangles
MK- 15 Squares
MK- 16 More
MK- 17 Less
MK- 18 Same As
MK- 19 As Many As
MK- 20 Not Equal
MK- 21 Equal
MK- 22 Before
MK- 23 In Front Of
MK- 24 On
MK- 25 The Number Zero
MK- 26 The Number One
MK- 27 The Number Two
MK- 28 The Number Three
MK- 29 The Number Four
MK- 30 The Number Five
MK- 31 The Number Six
MK- 32 The Number Seven
MK- 33 The Number Eight
MK- 34 The Number Nine
MK- 35 The Number Ten
MK- 36 Empty Set
MK- 37 One
MK- 38 Two
MK- 39 Three
MK- 40 Four
MK- 41 Five
MK- 42 Six
MK- 43 Seven
MK- 44 Eight
MK- 45 Nine

- MK- 46 Ten
MK- 47 What Comes Next?
MK- 48 Find a Pattern – 3 Shapes
MK- 49 Create a Pattern – 4 Shapes

Grade 1

- M1-01 Find One (1)
M1-02 Find Two (2)
M1-03 Find Three (3)
M1-04 Find Four (4)
M1-05 Find Five (5)
M1-06 Find Six (6)
M1-07 Find Seven (7)
M1-08 Find Eight (8)
M1-09 Find Nine (9)
M1-10 Find Ten (10)
M1-11 Matching the Numeral to a Number
M1-12 Find the Missing Number
M1-13 Count from 1 to 100
M1-14 Read & Write Numbers
M1-15 First, Second, Third
M1-16 Adding Pictures
M1-17 Subtracting Pictures
M1-18 Add & Subtract
M1-19 More Than
M1-20 Less Than
M1-21 Math Pictures
M1-22 Check Addition with Subtraction
M1-23 Graphs
M1-24 10s and 1s
M1-25 How Many Tens and Ones?
M1-26 Add 2 Digit Numbers
M1-27 Subtract 2 Digit Numbers
M1-28 Count by Fives and Tens
M1-29 Telling Time
M1-30 Quarters, Dimes, Nickles, & Pennies
M1-31 Add up to 18
M1-32 Subtract up to 18
M1-33 Add and Subtract Some More
M1-34 Measure This
M1-35 Circles, Squares, Triangles, & Rectangles
M1-36 Fractions
M1-37 Solve a Problem