# Maths 1 (DUMF1013)



1.

Haylock, D.: Understanding mathematics for young children: A guide for teachers of children 3-7, 14. SAGE Publications, London (2017).

### 2.

Cockburn, Anne, Dawson Books: Mathematical understanding 5-11: practical ideas from and for the primary classroom. Paul Chapman, London (2007).

### З.

Haylock, Derek, Thangata, Fiona, Dawson Books: Key concepts in teaching primary mathematics. SAGE Publications, Los Angeles, CA (2007).

# 4.

Gates, P., NetLibrary, Inc: Issues in mathematics teaching. Routledge/Falmer, London (2001).

### 5.

National Council of Teachers of Mathematics, Thomson Gale (Firm): Teaching children mathematics. (1994).

### 6.

Association of Teachers of Mathematics, EBSCO Publishing (Firm): Mathematics teaching.

BBC: BBC - Schools Ages 4-11 - Numeracy Sites, https://www.bbc.co.uk/schools/websites/4\_11/site/numeracy.shtml.

8.

Education Scotland: Supporting Curriculum for Excellence (CfE), quality and improvement, assessment, community and lifelong learning - Education Scotland, http://www.educationscotland.gov.uk/.

9.

Teaching Ideas: Maths - General Teaching Ideas, http://www.teachingideas.co.uk/maths/contents.htm.

10.

Math is Fun - Maths Resources, http://www.mathsisfun.com/.

11.

Education videos and resources for professional development, http://www.teachers-media.com/.

12.

Ofsted | Finnish pupils' success in mathematics, http://www.ofsted.gov.uk/resources/finnish-pupils-success-mathematics.

13.

Children's mathematics journals.

14.

BBC - Schools Ages 4-11 - Numeracy Sites, https://www.bbc.co.uk/schools/websites/4\_11/site/numeracy.shtml.

### 15.

Math is Fun - Maths Resources, http://www.mathsisfun.com/.

### 16.

Numeracy across learning - Responsibility of all - Learning, teaching and assessment, http://www.educationscotland.gov.uk/learningteachingandassessment/learningacrossthecu rriculum/responsibilityofall/numeracy/.

### 17.

Mathematics - Curriculum areas - Learning, teaching and assessment, http://www.educationscotland.gov.uk/learningteachingandassessment/curriculumareas/ma thematics/.

### 18.

Numeracy - Wikipedia, the free encyclopedia, http://en.wikipedia.org/wiki/Numeracy.

### 19.

Thompson, I.: Numeracy articles, http://www.ianthompson.pi.dsl.pipex.com/index\_files/Page352.htm.

### 20.

A Maths Dictionary for Kids 2013 by Jenny Eather | Maths Resources | Maths Online Dictionary | Math Words | Math Online Glossary | Math Terms, http://www.amathsdictionaryforkids.com/.

### 21.

Assignment video 1, http://www.teachersmedia.co.uk/videos/ks1-ks2-maths-making-maths-real.

Assignment video 2, http://www.teachersmedia.co.uk/videos/calculation.

### 23.

Assignment video 3, http://www.teachersmedia.co.uk/videos/measures.

### 24.

Assignment video 4, http://www.teachersmedia.co.uk/videos/ks1-ks2-maths-problem-solving-1.

### 25.

Maths BetterExplained, http://betterexplained.com/archives/.

### 26.

Thompson, I., Dawson Books: Enhancing primary mathematics teaching. Open University Press, Maidenhead (2003).

### 27.

Thompson, I.: Enhancing primary mathematics teaching. Open University Press, Maidenhead (2003).

### 28.

BBC News - New insight into how children learn maths, https://www.bbc.co.uk/news/health-26643823.

### 29.

Growth Mindset: How to Normalize Mistake Making and Struggle in Class | GROWTH MINDSET | MindShift | KQED News,

http://ww2.kqed.org/mindshift/2015/08/24/growth-mindset-how-to-normalize-mistake-maki ng-and-struggle-in-class/?utm\_source=facebook.com&utm\_medium=social&utm\_campaign =npr&utm\_term=nprnews&utm\_content=20150830.

30.

BBC One - The Richard Dimbleby Lecture, Michael Morpurgo: Set Our Children Free, An extract from Michael Morpurgo's Lecture 'Set Our Children Free.', https://www.bbc.co.uk/programmes/p00fgfl8.

31.

KS1 Numeracy - Understanding Place Value | Teachfind, http://teachfind.com/teachers-tv/ks1-numeracy-understanding-place-value?current\_search =understanding%20place%20value.

### 32.

Reading How Do We Teach Children To Be Numerate? British Educational Lesson Plan Teach Ordering Numbers,

http://www.padjane.com/how-do-we-teach-children-to-be-numerate-british-educational-les son-plan/reading-how-do-we-teach-children-to-be-numerate-british-educational-lesson-plan /.

### 33.

Fuson, K.C., Grandau, L., Sugiyama, P.A.: Achievable Numerical Understandings for All Young Children. Teaching Children Mathematics. 7, (2001).

34.

BBC - Learning Zone Class Clips - The history of place values and index notation - Maths Video,

http://www.bbc.co.uk/learningzone/clips/the-history-of-place-values-and-index-notation/13 585.html.

35.

Conversion of integers between integer bases, http://www.mathpath.org/concepts/Num/conv.htm.

Fun with Maths, http://www.teachersmedia.co.uk/videos/fun-with-maths.

### 37.

Year 3 - All about Numbers, https://www.youtube.com/watch?v=hlYKWCCqpZA.

### 38.

Teaching and Learning - Early Years Foundation Stage, http://archive.teachfind.com/ttv/www.teachers.tv/videos/teaching-and-learning-early-years -foundation-stage.html.

### 39.

Number Theory Index, http://www-history.mcs.st-andrews.ac.uk/Indexes/Number\_Theory.html.

### 40.

Conservation of number task, http://www.youtube.com/watch?v=19qM4OoV59U.

### 41.

Interactivate: Tessellate!, http://www.shodor.org/interactivate/activities/Tessellate/.

### 42.

Symmetry Game,

http://www.innovationslearning.co.uk/subjects/maths/activities/year3/symmetry/shape\_ga me.asp.

### 43.

Pre-school Math, http://math.about.com/od/reference/a/preschool.htm.

Cool Math 4 Kids Free Online Subtraction Lessons, Games, Activities and Flash Cards to Print (Printable), http://www.coolmath4kids.com/subtraction/index.html.

#### 45.

Mr Duey - Fractions Official Video - TeacherTube, http://www.teachertube.com/viewVideo.php?video\_id=24266.

#### 46.

Teachers TV: Negative Numbers 1 - Resources - TES, https://www.youtube.com/watch?v=nbsEikxHeOE.

#### 47.

Teachers TV: Negative Numbers 2 - Resources - TES, https://www.youtube.com/watch?v=T789mXx4l48.

#### 48.

Year 6 - A Lesson in Subtraction as a Confidence Builder, https://www.youtube.com/watch?v=X0jZe3vgTB0.

49.

Multiplication Fun Facts 1 - TeacherTube, http://www.teachertube.com/viewVideo.php?video\_id=136266&title=Multiplication\_Fun\_Facts\_1.

#### 50.

Year 4 - Observing a Lesson on Times Tables, https://www.youtube.com/watch?v=4crhtd3wbdM.

Method in Multiplying Madness? : nrich.maths.org, http://nrich.maths.org/5612.

52.

A Problem Is Only a Problem When You Can't Do It : nrich.maths.org, http://nrich.maths.org/5738.

53.

Problems on nrich, http://nrich.maths.org.

54.

Year 5 - Problem Solving and Building Confidence, http://www.teachersmedia.co.uk/videos/year-5-problem-solving-and-building-confidence.

55.

Where Next for Primary Assessment?, http://www.teachersmedia.co.uk/videos/where-next-for-primary-assessment.

56.

Problem Solving with George Polya, http://www.youtube.com/watch?v=uCS7GO0fkc4.

57.

KS1/2 Maths - Just Division | Teachfind, https://www.youtube.com/watch?v=\_K-GHO8D9gY.

58.

KS1/2 Maths - Just Division | Teachfind, https://www.youtube.com/watch?v=fYQ-8rWOZPw.

Problem solving on Teachersmadia, https://www.youtube.com/watch?v=OcliYaCncN0.

### 60.

Maths - Measure Teaching Ideas, https://www.teachingideas.co.uk/subjects/measure.

### 61.

UK Shoe Sizes Explanation & History, http://www.internationalshoesizes.com/uk-shoe-sizes.htm.

### 62.

How Big is a foot?, http://www.youtube.com/watch?v=bWhWL1MET7A.

### 63.

Teaching Time - Telling the time made fun!, http://www.teachingtime.co.uk/.

### 64.

Mass vs. Weight: Introduction, http://www.youtube.com/watch?v=gjfLI7aJKmQ.

# 65.

Maths - Number Patterns Teaching Ideas, http://www.teachingideas.co.uk/maths/contents\_nopatterns.htm.

### 66.

Early algebra - Thinkmath, http://thinkmath.edc.org/index.php/Early\_algebra.

Triangular Numbers, http://www.mathematische-basteleien.de/triangularnumber.htm.

68.

BBC - Schools - Teachers - Maths - KS1 lesson plans, http://www.bbc.co.uk/schools/teachers/ks1\_lessonplans/maths/index.shtml.

69.

Algebra - What's the Pattern? | SchoolsWorld, http://www.schoolsworld.tv/node/3358.

70.

GCSE Maths Sequences Revision - The nth Term | S-cool, the revision website, http://www.s-cool.co.uk/gcse/maths/sequences/revise-it/the-nth-term.

71.

Primary Resources: Maths: Measures, Shape & Space: 2-D and 3-D Shape, http://www.primaryresources.co.uk/maths/mathsE3.htm.

72.

KS1/2 Maths - Learning Maths with Kyane, https://www.youtube.com/watch?v=MU67i9dXvpM.

73.

Shape and Space, https://www.youtube.com/watch?v=MrTO6pjuzVw.

74.

Maths - A Lesson on Shapes, http://archive.teachfind.com/ttv/www.teachers.tv/videos/uncut-classrooms-maths-a-lessonon-shapes.html.

Interactivate: Tessellate!, http://www.shodor.org/interactivate/activities/Tessellate/.

### 76.

Symmetry Game,

http://www.innovationslearning.co.uk/subjects/maths/activities/year3/symmetry/shape\_ga me.asp.

### 77.

3D Awareness, http://www.teachersmedia.co.uk/videos/3d-awareness.

### 78.

Maths - Data Handling Teaching Ideas, http://www.teachingideas.co.uk/maths/contents\_datahandling.htm.

### 79.

Data Handling, https://www.youtube.com/watch?v=8JVtJkTAhec.

80.

Maths Search : nrich.maths.org, http://nrich.maths.org/public/search.php?search=carroll diagrams.

### 81.

Maths Search : nrich.maths.org, http://nrich.maths.org/public/search.php?search=bar charts.

### 82.

Monthly Index page:: All Stages : nrich.maths.org,

http://nrich.maths.org/thismonth/all/2002/05/?showfulltier=yes.

### 83.

Monthly Index page:: All Stages : nrich.maths.org, http://nrich.maths.org/thismonth/all/2003/06/?showfulltier=yes.

### 84.

Primary ICT - Numeracy - Handling Data, http://archive.teachfind.com/ttv/www.teachers.tv/videos/primary-ict-numeracy-interpreting -data.html.

### 85.

Haylock, D.: Creativity in Maths, http://www.uk.sagepub.com/haylock/podcast.htm.

86.

The UK needs a revolution in the way maths is taught. Here's why... | Education | The Observer,

http://www.theguardian.com/education/2014/feb/23/maths-teaching-revolution-needed-conrad-wolfram.

87.

Dan Meyer: Math class needs a makeover | Video on TED.com, http://www.ted.com/talks/lang/en/dan\_meyer\_math\_curriculum\_makeover.html.