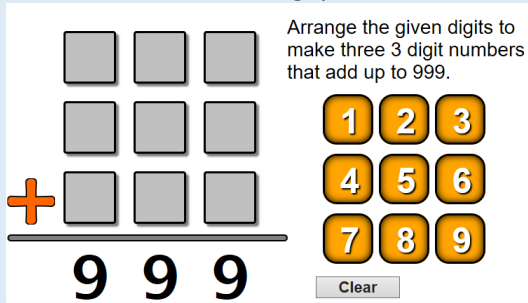


Y10 Maths Weekly Task Grid – Week commencing 20th April

Choose at least 4 tasks to complete throughout the week. I would like at least 2 tasks to be from the **Pink** boxes if possible.

<p>Task 1</p> <p>Complete all newly set work on https://www.mathspad.co.uk/</p> <p>Passwords are on SMHW</p> <p><u>This week, work set on mathspad is revision.</u></p>	<p>Task 2</p> <p>Go onto mangahigh Maths Website</p> <p>Log on with the details attached to show my homework</p> <p>Attempt the new tasks that have been set for this week.</p> <p>If you redo the exercise you will start on the harder questions you got to last time</p> <p>You get more points for answering harder questions</p> <p>Try and get at least a bronze medal</p> <p><u>This week, work set on mangahigh is previous learning.</u></p>	<p>Task 3</p> <p>Practice your numeracy skills by playing countdown</p> <p><u>Countdown</u></p>	<p>Task 4</p> <p>Play the maths game 2048 and try to complete it. (Without cheating!)</p> <p>Take a screen shot when completed and send it to me.</p>
<p>Task 5</p> <p>Complete the questions on the next page.</p> <p>Submit to me via email or SMHW and I will check them.</p>	<p>Task 6</p> <p>Problem solving question.</p> <div data-bbox="560 718 1086 1021">  </div>	<p>Task 7</p> <p>Complete questions on page 3.</p> <p>Submit to me via email or SMHW and I will check them.</p>	<p>Watch a film that is linked to maths. Some ideas below (all PG):</p> <p>A Beautiful Mind</p> <p>The Man Who Knew Infinity</p> <p>Queen of Katwe</p> <p>Moneyball</p> <p>Back to the Future</p> <p>Hidden Figures</p>
<p>Task 9</p> <p>Complete all newly set work on https://www.mymaths.co.uk/</p> <p>Passwords are on SMHW</p> <p><u>Work set on mymaths is new content. Circle Theorems.</u></p>	<p>Task 10</p> <p>Join an online lesson with Miss Lowe on Zoom</p> <p>I will be teaching 1 lesson this week.</p> <p>This lesson will be on new content.</p> <p>There will also be an opportunity to ask questions about any other work that has been set.</p> <p>If you would like to join the zoom lesson then email me on:</p> <p>lloew@stocksbridgehigh.sheffield.sch.uk</p> <p>or message me on SMHW</p>	<p>Task 11</p> <p>Improve your logic skills</p> <p>Play any of the three games on</p> <p><u>Solve me</u></p>	<p>Task 12</p> <p>Read a book that is linked to maths.</p> <p>Some ideas below:</p> <p>Giant Pumpkin Suite - Melanie Heuiser Hill</p> <p>Navigating Early - Clare Vanderpool</p> <p>Secrets, Lies and Algebra - Wendy Lichtman</p> <p>Ruby Redfort Feel the Fear - Lauren Child</p> <p>More book ideas on this link if you want them</p>

Task 5

1. ⚡

If 20% of an amount is 96,
what is 5%?

2. ⚡

$$\frac{3}{4} \times \frac{6}{9}$$

3. ⚡

9 chocolate bars costs £1.89.
How much would 15 chocolate
bars cost?

4. ⚡

Solve:
 $2(5p-5) = 110$

5. ⚡

$$90 \times 285$$

6. ⚡

A geometric sequence begins:
4, \square , 16, \square , ...
Find the 4th term.

7. ⚡

$$-12 \times -18$$

8. ⚡

$$(9 \times 10^7) - (1.3 \times 10^4)$$

9. ⚡

$$5 \times 0.02$$

10. ⚡

$$(4 \times 10^{23}) \div (8 \times 10^{12})$$

11. ⚡

Convert 40 mm to m

12. ⚡

Expand and simplify:
 $3(17h + 2j) - 6(8h + 2j)$

13. ⚡

Find the 9th term given:
 $n^{\text{th}} \text{ term} = 2n^2 - 6$

14. ⚡

0.67 as a fraction

15. ⚡

Round 358 to 1 s.f

16. ⚡

If $e = -0.1$ and $f = 6$, calculate:
 $e(3e+3f)$

Task 7

- 1 **Expand and simplify** $(2x + 1)(x - 1)$
- 2 **Simplify** $5\sqrt{3} - \sqrt{3}$
- 3 Find the gradient of the line $2y = 10x + 3$
- 4 Find the value of $15 - x^2$ when $x = -2$
- 5 Find the n th term of $-6, -4, -2, 0, \dots$
- 6 **Solve by factorising** $x^2 - x - 2 = 0$
- 7 **Evaluate** $8^{\frac{1}{3}}$
- 8 **Solve** $7x - 4 < 31$
- 9 **Work out** $3 \times 10^4 - 2.8 \times 10^3$
- 10 Find the **gradient** of the line joining $(-1, -2)$ and $(1, 12)$