## Year 1-6

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## 


subtraction, and multiplication and division.


 Rulationfoftheronfits



Farh noratinn is then hroken down intn skills.and each skill has a dedicated nage showino the different models and images that could be used to effectively teach that concent


There is an overview of skills linked to year groups




## Bar Model

## Numbrinuadtow

## Astance Limeranimeford

## Number Lines (blank)



## Benefits

 children's understanding of column multiplication. It is
 Manasidnthaprinesotrethex cheter howthrug


As numbers become larger in multiplication or the

 ordunimethronfexchanges nepded.

Base 10 also sunnorts the area model nf multinlication





Times Tables

| Skill | Year | Bumeprestanionafyanc mocei |  |
| :---: | :---: | :---: | :---: |
| Finsimand use multinticatianonds dimenemantrifarthy 2-times table | 2 | Bar model jaber'sumatrs: <br> Money | (1) $7 \times 3: 1+x+1$ <br> Bead strings <br> Numborlines <br> Everyday objects |
| Fisimen and use muthintictianonds dixinem fantrifarthill 5-times table | 2 | Bar model <br>  <br> Money | (1) 1 リT Tr, <br> Bead strings <br> Numberlines <br> Everyday objects |
| Fismemand use mutinticatiansand dixnize fantr.forthon 10-times table | 2 | Hundrod souras jabec' 'sumodrs: <br> Money |  <br> Bead strings Numborlines Base 10 |


| Skill | Year | Braspresentionax: |  |
| :---: | :---: | :---: | :---: |
| Fimilimand use muthintientianond dixiciza fartr.farthin 7-times table | 4 | Bundred soliarose jowes mimners | Bead strings Numberlipes |
| Neminand use muthinicatianands dixicien fartr.fort tin 9-times table | 4 | Hundred somaro jobes Mumners: | Bead strings Numberlipes |
| Nis.inand use mutuinticationonds dixncias fnctr.forthou 11-times table | 4 | Hundred square Base 10 | Plareyalierountars, Number lipes. |
| ?iserfand use mutinlicatianond dixiciat fartr.farthon 12-times table | 4 | Hundred square Base 10 | Plareyalue counters, Numbor lipes. |






Year: 4
Encourage daily counting in multiples.
 2 Histortinumper hundred spuare.
 miriesou mesthat.

 to the 3 times table, seeing how each multiole is double the threes. Notice the pattern in the ones stol Wol mint eacha five multiples.
h. gentitinat an trie: - g multioles are even.



Year: 4
Encourage daily septing: in multinlnez both forwards and backwards, supported by a number line or a bundred snuare.
Staot?! nie sevent The can be trickier to
mandroued tratrat
 the numbers. however thakedendictnent:
revoth fortat ratres cammytatixity: Children san still see the nodd even nattern
 pymher shanes to supprait.


| ill: Skriectanintota | ear: 4 |
| :---: | :---: |
|  | Encourage daily counting in multiples. <br>  <br>  bundred spuare. <br>  the 12 times table, <br>  <br>  <br>  seeing how each multiole is double the sixes. Notice the pattern in the ones <br>  ค. hundrad, couaros? min sunnort in highlighting this |



| Skill | Year | Binerpostentinax |  |
| :---: | :---: | :---: | :---: |
| Solve one-step resheresusith <br>  | 1/2 | Bar model jaber'sumndrs: | $\begin{aligned} & \text { un lintea } \\ & \text { Resuntenges } \\ & \text { Number lipes } \end{aligned}$ |
| Multinlv?-digit by 1- | 3/4 | Rurcelnorestates <br> Base 10 |  <br>  |
| Whty gedigit by 1 | 4 | Burcelnoterates Base 10 |  |
| istivadigit by 1 - | 5 | Plarevalue sountors, |  |


| Skill | Year | Demoprosenticonay lanc miocei |  |
| :---: | :---: | :---: | :---: |
| Multinlv 2-tristuse | 5 | Rambelncerabter Base 10 | Sbet yits-armetwad Grid method |
|  | 5 |  |  Grid method |
| Multinle 2.-digit bv 4- | 5/6 |  |  |




|  | Year: 3/4 |
| :---: | :---: |
| $3 \wedge E_{11}$ | 1411 <br> digit <br> multiplication, encourage children to <br>  <br>  motbad <br> Base 10 and place value counters continue to support <br>  the written method. <br> tronitiontwhater Nubanance madod in <br> 3'huestinns anc- $n$ monnubidnan wew from resources when numbers. |



|  | Year. 516 |
| :---: | :---: |
|  |  dxamedigits, children should be confident in the written method. <br> If they are still struogling with times tables, provide multiplication grids to support when they <br>  use of the method. <br> Consider where <br>  alonod and malen <br>  |

Mintinexa


| Skill | Year | Bmaxpresentionaxithnc mioce |  |
| :---: | :---: | :---: | :---: |
| Divide 4-digits by 1 digit (ornuning) | 5 | Plareyalie counters, $\square$ | DlanMit:e-sxidus <br>  |
| Divide multi-3c gitsoy 2-digits (short division) | 6 |  |  |
| Divide multi-digits by 2-digits (long division) | 6 | Written long division | List of multiples |




|  |  |
| :---: | :---: |
|  |  |



|  | Year：3／4 |
| :---: | :---: |
| 13 13 13 13 1 <br> 534 亩亩童 | When dividing numbers with ers，children remaind can use Base 10 and place value counters nge one ten：to excina for ten ones． <br>  equipment outside the place value grid will highlight remainders，as they will he left outside the grid onçe the eaual groups have been meder <br> Ftroithormberaty a part－8tratacurindes supports this method． |



|  | Hremfin |
| :---: | :---: |
| $4 \text { R18 }$ |  <br>  support their understanding of <br>  dividing a 3-digit <br> digit <br> Titisulinue <br> Rlacedialue counters. D:ain counters can be used on a place Gu' orio tnstnnortiv <br>  <br>  draw their own crounters and proun . Humitherusiduantifere 3intarial |




## Glossary



 in any order.

