

Astronaut selection

Recites numbers in order to 10			
Recognises numerals 1 to 5			
Counts up to three or four objects by saying one number name for each of them			
Counts out up to six objects from a larger group			
Selects the correct number to represent 1 to 5			
Selects the correct number to represent 1 to 10			
Counts objects to 10			
Count beyond 10			

Launch Pad

Say the numbers 0-20 accurately			
Read the numbers 1 to 20 in numerals			
Say 1 more than any number between 0-20			
Say 1 less than any number between 0-20			
Say 1 more and 1 less than any two digit number			
To count in twos <i>2, 4, 6, 8, 10, 12, 14, 16, 18, 20...22, 24</i>			
To count in fives <i>5, 10, 15, 20, 25, 30, 35, 40, 45, 50...55, 60</i>			
To count in tens <i>10, 20, 30, 40, 50, 60, 70, 80, 90, 100...110</i>			

Mercury

Know by heart all number bonds to 10, so $7 + 3$, $2 + 8$, $4 + 6$...			
Know the days of the week, months of the year and seasons			
To know by heart all addition and subtraction facts for each number up to 5, so $5 + 0$, $5 - 0$, $4 + 1$, $4 - 1$, $3 + 1$, $3 - 1$, $2 + 1$, $2 - 1$...			
Recall the doubles of all numbers to at least 10, so <i>double 7 = 14, Double 3 = 6, double 9 = 18</i>			
Know by heart all number bonds that total 20			
Know by heart all addition and subtraction facts for each number up to 10			

Venus

Know by heart all bonds of multiples of 10 to 100			
Know by heart doubles and halves of all numbers to 20			

Count in tens from any number, forward or backward			
Know by heart addition and subtraction facts for each number up to 20			
Know by heart all multiplication facts, and division facts, for 2, up to 2 x 12			
Know by heart all multiplication facts, and division facts, for 5, up to 5 x 12			
Know by heart all multiplication facts, and division facts, for 10, up to 10 x 12			

Earth

Know by heart all sums and differences of multiples of 10 up to 100			
Know by heart all number bonds that total 100			
Know by heart all doubles of multiples of 5 up to 100... <i>double 45, double 15</i>			
Know by heart all doubles of multiples of 10 up to 100... <i>double 30, double 5</i>			
Know by heart all halves of all multiples of 10 up to 100... <i>halve 60, halve 70</i>			
Know by heart all multiplication facts, and division facts, for 3, up to 3 x 12			
Know by heart all multiplication facts, and division facts, for 6, up to 6 x 12			
Know by heart all multiplication facts, and division facts, for 4, up to 4 x 12			

Mars

Know the number of seconds in a minute, minutes in an hour and hours in a day			
Know the number of days in a week, month and year, including leap years			
Know the number of g in kg, ml in l, mm in cm, cm in m and m in km			
Count from zero in steps of 4			
Count from zero in steps of 8			
Count from zero in steps of 50			
Count from zero in steps of 100			

Jupiter

Recognise multiples of 2, 5, 10 up to 1000			
Double any 2 digit number... <i>double 42, double 67, double 88</i>			
Halve any 2 digit number... <i>halve 50, halve 86, halve 98</i>			
Know by heart all multiplication facts for 7, up to 7 x 12			

Know by heart all division facts, for 7, up to 7×12			
Know by heart all multiplication facts for 8, up to 8×12			
Know by heart all division facts for 8 up to 8×12			
Know by heart all multiplication facts for 9, up to 9×12			
Know by heart all division facts, for 9, up to 9×12			

Saturn

Count from any number in steps of 6			
Count from any number in steps of 7			
Count from any number in steps of 9			
Count from zero in steps of 25			
Count from zero in steps of 1000			
Know by heart all multiplication facts for 11, up to 11×12			
Know by heart all division facts for 11 up to 11×12			
Know by heart all multiplication facts for 12, up to 12×12			
Know by heart all division facts, for 12, up to 12×12			

Uranus

Use knowledge of time facts to write equivalent times to multiples of $\frac{1}{4}$ of a unit e.g. 180 seconds = 3 minutes, 5 $\frac{1}{4}$ hours = 5 hours 15 mins			
Use knowledge of mass and weight facts to write equivalent measures e.g. 3.75kg = 3750g, 5678g = 5.678kg			
Use knowledge of volume and capacity facts to write equivalent measures e.g. 7.45l = 7450ml, 3278ml = 3.278l			
Use knowledge of length facts to write equivalent measures e.g. 5.2km = 5200m, 22mm = 2.2cm			
Count up and down in tenths from any given number			
Know by heart 1 tenth more of any given number			
Know by heart 1 tenth less than any given number			

Neptune

Add and subtract 2 fractions with the same denominator within one whole			
Add and subtract 2 fractions with the same denominator			
Starting at any given number count forwards and backwards in steps of any number, including through zero to include negative numbers			

Double any number with up to 1 decimal place			
Halve any number with up to 1 decimal place			
Recall quickly multiplication facts up to 12 x 12 and use them to multiply pairs of multiples of 10 and 100, for example 30 x 70, 40 x 200			
Recall quickly division facts of all tables up to 12 x 12 and use them to divide pairs of multiples of 10 and 100, for example $240 \div 40 = 60$			

The Milky Way

Identify pairs of factors for all 2 digit whole numbers			
Know by heart all the squares of numbers up to 12 x 12			
Know by heart all the cubes numbers up to 12^3			
Recognise and recall factors of numbers up to 100 and corresponding multiples of 100			
Use knowledge of place value and x facts to 12 x 12 to derive related multiplication and division facts involving decimals... $0.8 \times 7 = 5.6$			
Know by heart tests of divisibility for multiples of 2, 3, 4, 5, 6, 9 and 10			