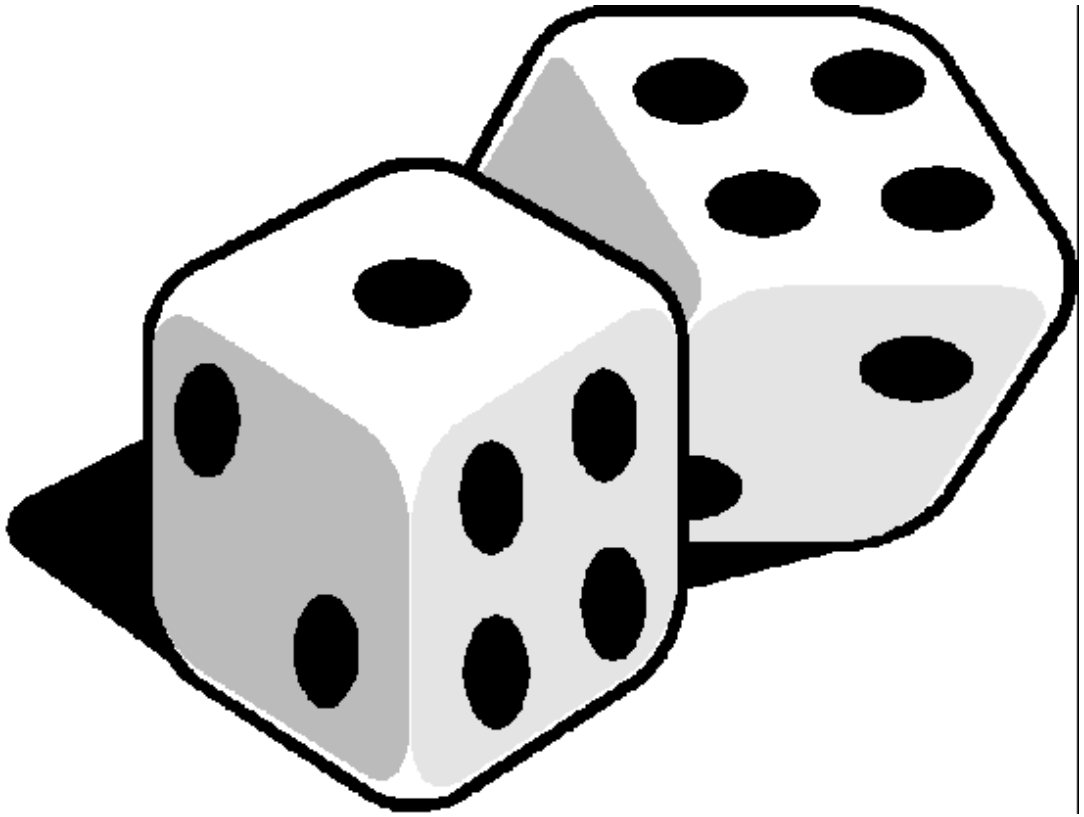
Basic Facts Maintenance Activities for more Advanced Learners



Using Basic Fact Dice Cards

1. Record the activity you are doing on your Record Sheet.
2. Decide how many people you are going to work with, any number from 1 to 4 is acceptable.
3. Decide how many times you will each throw the dice and how you are going to record your responses. (10 is a good number)
4. Set targets and goals for each other to achieve i.e. complete it in 2 minutes, or who is the quickest etc.
5. Have your work checked by another person in your group. You may use a calculator for checking answers.
6. Think of other ways to use the dice and how the activities can be modified, adapted, and developed.
7. Make sure that all equipment, cards dice and anything else you have used is put away when you have finished.
8. Be continually creating and innovating new ways to use these items to enhance and extend your maths.

Using 2 Dice Add the numbers thrown.	**Using 3 Dice** Add the numbers thrown.	**Using 4 Dice** Add the numbers thrown.	**Using 5 Dice** Add the numbers thrown.	**Using 6 Dice** Add the numbers thrown.
Using 2 Dice Subtract the numbers thrown.	**Using 3 Dice** Subtract the numbers thrown.	**Using 4 Dice** Subtract the numbers thrown.	**Using 5 Dice** Subtract the numbers thrown.	**Using 6 Dice** Subtract the numbers thrown.
Using 2 Dice Multiply the numbers thrown.	**Using 3 Dice** Multiply the numbers thrown.	**Using 4 Dice** Multiply the numbers thrown.	**Using 5 Dice** Multiply the numbers thrown.	**Using 6 Dice** Multiply the numbers thrown.
Using 2 Dice Square the numbers thrown.	**Using 3 Dice** Square the numbers thrown.	**Using 4 Dice** Square the numbers thrown.	**Using 5 Dice** Square the numbers thrown.	**Using 6 Dice** Square the numbers thrown.

Using 2 Dice Square the numbers thrown then add them.	**Using 3 Dice** Square the numbers thrown then add them.	**Using 4 Dice** Square the numbers thrown then add them.	**Using 5 Dice** Square the numbers thrown then add them.	**Using 6 Dice** Square the numbers thrown then add them.
Using 2 Dice Square the numbers thrown then multiply them.	**Using 3 Dice** Square the numbers thrown then multiply them.	**Using 4 Dice** Square the numbers thrown then multiply them.	**Using 5 Dice** Square the numbers thrown then multiply them.	**Using 6 Dice** Square the numbers thrown then multiply them.
Using 2 Dice First number to the power of the 2^{nd}.	**Using 3 Dice** Add the first 2 numbers then calculate that number to the power of the 3^{rd}.	**Using 4 Dice** Add the first 3 numbers then calculate that number to the power of the 4^{th}.	**Using 5 Dice** Add the first 4 numbers then calculate that number to the power of the 5^{th}.	**Using 6 Dice** Add the first 5 numbers then calculate that number to the power of the 6^{th}.
Using 2 Dice Divide the first number by the 2^{nd}.	**Using 3 Dice** Add the first 2 and divide by the 3^{rd}.	**Using 4 Dice** Add the first 3 and divide by the 4^{th}.	**Using 5 Dice** Add the first 4 and divide by the 5^{th}.	**Using 6 Dice** Add the first 5 and divide by the 6^{th}.

Using 2 Dice Build a pattern based on the numbers thrown.	**Using 3 Dice** Build a pattern based on the numbers thrown.	**Using 4 Dice** Build a pattern based on the numbers thrown.	**Using 5 Dice** Build a pattern based on the numbers thrown.	**Using 6 Dice** Build a pattern based on the numbers thrown.
Using 2 Dice Use place value to make as many numbers as you can using the numbers thrown.	**Using 3 Dice** Use place value to make as many numbers as you can using the numbers thrown.	**Using 4 Dice** Use place value to make as many numbers as you can using the numbers thrown.	**Using 5 Dice** Use place value to make as many numbers as you can using the numbers thrown.	**Using 6 Dice** Use place value to make as many numbers as you can using the numbers thrown.
Using 2 Dice Calculate the average.	**Using 3 Dice** Calculate the average.	**Using 4 Dice** Calculate the average.	**Using 5 Dice** Calculate the average.	**Using 6 Dice** Calculate the average.
Using 2 Dice Record the range from smallest to largest.	**Using 3 Dice** Record the range from smallest to largest.	**Using 4 Dice** Record the range from smallest to largest.	**Using 5 Dice** Record the range from smallest to largest.	**Using 6 Dice** Record the range from smallest to largest.

Using 2 Dice Record all the fractions you can make with the numbers thrown.	**Using 3 Dice** Record all the fractions you can make with the numbers thrown.	**Using 4 Dice** Record all the fractions you can make with the numbers thrown.	**Using 5 Dice** Record all the fractions you can make with the numbers thrown.	**Using 6 Dice** Record all the fractions you can make with the numbers thrown.
Using 2 Dice Record fractions, show them as decimals and %ages.	**Using 3 Dice** Record fractions, show them as decimals and %ages.	**Using 4 Dice** Record fractions, show them as decimals and %ages.	**Using 5 Dice** Record fractions, show them as decimals and %ages.	**Using 6 Dice** Record fractions, show them as decimals and %ages.
Using 2 Dice Record all the numbers you can make and show their range.	**Using 3 Dice** Record all the numbers you can make and show their range.	**Using 4 Dice** Record all the numbers you can make and show their range.	**Using 5 Dice** Record all the numbers you can make and show their range.	**Using 6 Dice** Record all the numbers you can make and show their range.
Using 2 Dice How many throws does it take to get all numbers showing the same?	**Using 3 Dice** How many throws does it take to get all numbers showing the same?	**Using 4 Dice** How many throws does it take to get all numbers showing the same?	**Using 5 Dice** How many throws does it take to get all numbers showing the same?	**Using 6 Dice** How many throws does it take to get all numbers showing the same?

Using 2 Dice How many throws does it take to get the numbers in order from smallest to largest.	**Using 3 Dice** How many throws does it take to get the numbers in order from smallest to largest.	**Using 4 Dice** How many throws does it take to get the numbers in order from smallest to largest.	**Using 5 Dice** How many throws does it take to get the numbers in order from smallest to largest.	**Using 6 Dice** How many throws does it take to get the numbers in order from smallest to largest.
Using 2 Dice Get to 100 with the least number of throws.	**Using 3 Dice** Get to 1000 with the least number of throws.	**Using 4 Dice** Get to 10000 with the least number of throws.	**Using 5 Dice** Get to 100000 with the least number of throws.	**Using 6 Dice** Get to 1000000 with the least number of throws.
Using 2 Dice Design a Maths game using 2 dice. Explain how you win, how to play, what the rules are.	**Using 3 Dice** Design a Maths game using 3 dice. Explain how you win, how to play, what the rules are.	**Using 4 Dice** Design a Maths game using 4 dice. Explain how you win, how to play, what the rules are.	**Using 5 Dice** Design a Maths game using 5 dice. Explain how you win, how to play, what the rules are.	**Using 6 Dice** Design a Maths game using 6 dice. Explain how you win, how to play, what the rules are.
Using 2 Dice Develop an activity that will help learn and reinforce Basic Facts and Tables.	**Using 3 Dice** Develop an activity that will help learn and reinforce Basic Facts and Tables.	**Using 4 Dice** Develop an activity that will help learn and reinforce Basic Facts and Tables.	**Using 5 Dice** Develop an activity that will help learn and reinforce Basic Facts and Tables.	**Using 6 Dice** Develop an activity that will help learn and reinforce Basic Facts and Tables.

Using 2 Dice Use the 2 dice to make a number puzzle.	**Using 3 Dice** Use the 3 dice to make a number puzzle.	**Using 4 Dice** Use the 4 dice to make a number puzzle.	**Using 5 Dice** Use the 5 dice to make a number puzzle.	**Using 6 Dice** Use the 6 dice to make a number puzzle.
Using 2 Dice Throw the dice. Multiply the numbers thrown. List all the factors of those numbers.	**Using 3 Dice** Throw the dice. Multiply the numbers thrown. List all the factors of those numbers.	**Using 4 Dice** Throw the dice. Multiply the numbers thrown. List all the factors of those numbers.	**Using 5 Dice** Throw the dice. Multiply the numbers thrown. List all the factors of those numbers.	**Using 6 Dice** Throw the dice. Multiply the numbers thrown. List all the factors of those numbers.
Using 2 Dice Throw the dice. Multiply the numbers thrown. List the common factors of those numbers.	**Using 3 Dice** Throw the dice. Multiply the numbers thrown. List the common factors of those numbers.	**Using 4 Dice** Throw the dice. Multiply the numbers thrown. List the common factors of those numbers.	**Using 5 Dice** Throw the dice. Multiply the numbers thrown. List the common factors of those numbers.	**Using 6 Dice** Throw the dice. Multiply the numbers thrown. List the common factors of those numbers.
Using 2 Dice Throw the dice. Multiply the numbers thrown. Find the lowest common factor.	**Using 3 Dice** Throw the dice. Multiply the numbers thrown. Find the lowest common factor.	**Using 4 Dice** Throw the dice. Multiply the numbers thrown. Find the lowest common factor.	**Using 5 Dice** Throw the dice. Multiply the numbers thrown. Find the lowest common factor.	**Using 6 Dice** Throw the dice. Multiply the numbers thrown. Find the lowest common factor.

Using 2 Dice Throw the dice. Multiply the numbers thrown. Find the highest common factor.	**Using 3 Dice** Throw the dice. Multiply the numbers thrown. Find the highest common factor.	**Using 4 Dice** Throw the dice. Multiply the numbers thrown. Find the highest common factor.	**Using 5 Dice** Throw the dice. Multiply the numbers thrown. Find the highest common factor.	**Using 6 Dice** Throw the dice. Multiply the numbers thrown. Find the highest common factor.
Using 2 Dice Throw the dice. Add them. List the first ten multiples of the numbers thrown.	**Using 3 Dice** Throw the dice. Add them. List the first ten multiples of the numbers thrown.	**Using 4 Dice** Throw the dice. Add them. List the first ten multiples of the numbers thrown.	**Using 5 Dice** Throw the dice. Add them. List the first ten multiples of the numbers thrown.	**Using 6 Dice** Throw the dice. Add them. List the first ten multiples of the numbers thrown.
Using 2 Dice Throw the dice. Add them. Find the lowest common multiple for the numbers recorded.	**Using 3 Dice** Throw the dice. Add them. Find the lowest common multiple for the numbers recorded.	**Using 4 Dice** Throw the dice. Add them. Find the lowest common multiple for the numbers recorded.	**Using 5 Dice** Throw the dice. Add them. Find the lowest common multiple for the numbers recorded.	**Using 6 Dice** Throw the dice. Add them. Find the lowest common multiple for the numbers recorded.
Using 2 Dice Throw the dice. Add them. Find the highest common multiple for the numbers recorded.	**Using 3 Dice** Throw the dice. Add them. Find the highest common multiple for the numbers recorded.	**Using 4 Dice** Throw the dice. Add them. Find the highest common multiple for the numbers recorded.	**Using 5 Dice** Throw the dice. Add them. Find the highest common multiple for the numbers recorded.	**Using 6 Dice** Throw the dice. Add them. Find the highest common multiple for the numbers recorded.

Using 2 Dice Throw the dice. Record the numbers thrown as a ratio, fractions and percentages.	**Using 3 Dice** Throw the dice. Record the numbers thrown as a ratio, fractions and percentages.	**Using 4 Dice** Throw the dice. Record the numbers thrown as a ratio, fractions and percentages.	**Using 5 Dice** Throw the dice. Record the numbers thrown as a ratio, fractions and percentages.	**Using 6 Dice** Throw the dice. Record the numbers thrown as a ratio, fractions and percentages.
Using 2 Dice What can you say about the order, sequence and relationship of the numbers?	**Using 3 Dice** What can you say about the order, sequence and relationship of the numbers?	**Using 4 Dice** What can you say about the order, sequence and relationship of the numbers?	**Using 5 Dice** What can you say about the order, sequence and relationship of the numbers?	**Using 6 Dice** What can you say about the order, sequence and relationship of the numbers?
Using 2 Dice Add a zero to the numbers thrown and add them quickly. Total all 10 throws.	**Using 3 Dice** Add a zero to the numbers thrown and add them quickly. Total all 10 throws.	**Using 4 Dice** Add a zero to the numbers thrown and add them quickly. Total all 10 throws.	**Using 5 Dice** Add a zero to the numbers thrown and add them quickly. Total all 10 throws.	**Using 6 Dice** Add a zero to the numbers thrown and add them quickly. Total all 10 throws.
Using 2 Dice Add two zeros to the numbers thrown and add them quickly. Total all 10 throws.	**Using 3 Dice** Add two zeros to the numbers thrown and add them quickly. Total all 10 throws.	**Using 4 Dice** Add two zeros to the numbers thrown and add them quickly. Total all 10 throws.	**Using 5 Dice** Add two zeros to the numbers thrown and add them quickly. Total all 10 throws.	**Using 6 Dice** Add two zeros to the numbers thrown and add them quickly. Total all 10 throws.

Using 2 Dice Complete three earlier activities using a calculator.	**Using 3 Dice** Complete three earlier activities using a calculator.	**Using 4 Dice** Complete three earlier activities using a calculator.	**Using 5 Dice** Complete three earlier activities using a calculator.	**Using 6 Dice** Complete three earlier activities using a calculator.
Using 2 Dice Use the language of probability to calculate the chances of throwing any number. Prove it.	**Using 3 Dice** Use the language of probability to calculate the chances of throwing any number. Prove it.	**Using 4 Dice** Use the language of probability to calculate the chances of throwing any number. Prove it.	**Using 5 Dice** Use the language of probability to calculate the chances of throwing any number. Prove it.	**Using 6 Dice** Use the language of probability to calculate the chances of throwing any number. Prove it.
Using 2 Dice Have ten throws. Record your results. Calculate the mean, mode and median.	**Using 3 Dice** Have ten throws. Record your results. Calculate the mean, mode and median.	**Using 4 Dice** Have ten throws. Record your results. Calculate the mean, mode and median.	**Using 5 Dice** Have ten throws. Record your results. Calculate the mean, mode and median.	**Using 6 Dice** Have ten throws. Record your results. Calculate the mean, mode and median.
Using 2 Dice Write the family of facts for the numbers thrown.	**Using 3 Dice** Write the family of facts for the numbers thrown.	**Using 4 Dice** Write the family of facts for the numbers thrown.	**Using 5 Dice** Write the family of facts for the numbers thrown.	**Using 6 Dice** Write the family of facts for the numbers thrown.