Angles

HERE'S THE MATHS

An angle is a measure of an amount of turn. A quarter of a whole turn is known as a right angle (or sometimes as a 'square' angle, because it is the same as the corner of a

square). Two right angles make a straight line; three right angles make $\frac{3}{4}$ of turn and

four right angles make a full turn. Your child is learning to recognise angles smaller than a right angle and larger than a right angle.

ACTIVITY

What to do

- Decide on a starting direction to face, e.g. the window.
- One person tosses the coins, the other turns.
- Roll the coins and count the number of 'heads'. This gives the number of right angle turns to make.
- Make the correct turn and explain your move e.g. if three heads are thrown, turn through $\frac{3}{4}$ of a turn and say, 'Three right angles is $\frac{3}{4}$ of a complete turn'.
- Change roles. Play for five minutes.

Variations

- Play for two minutes each and continue from the direction you finished facing after each go. Score 10 points every time a whole turn is completed.
- The person with the higher score is the winner.

QUESTIONS TO ASK

Use your arms to show me an angle that is smaller (or larger) than a right angle. How many right angles make a complete turn? Find three right angles that you can see. Find an angle that is smaller (or larger) than a right angle that you can see.







Date: _____

Name: _

MATH\$ TOPIC\$

These are the maths topics your child will be working on during the next three weeks:

• Addition

You will need:

4 coins

- Subtraction
- Angles

KEY MATHEMATICAL IDEA\$

During these three weeks your child will be learning to:

- mentally add ones, tens and hundreds to a 3-digit number
- mentally subtract ones, tens and hundreds from a 3-digit number
- identify right angles, recognise two right angles make a half-turn, three make $\frac{3}{2}$ of a turn and four a complete turn
- identify whether angles are greater or less than a right angle.

TIP\$ FOR GOOD HOMEWORK HABIT\$

Turn off the TV and computer. Choose a quiet place, preferably sitting at a table, where your child can work comfortably without disturbance.

Addition

HERE'S THE MATHS

Adding ones, tens and hundreds to a 3-digit number means answering calculations similar to: 234 + 7, 234 + 70 and 234 + 700; and missing number calculations 234 + 241, 234 + 23

ACTIVITY

231	457	989	
845	502	673	
326	718	164	

You will need:	ou wil	I need:
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- set of cards with
- digits 1–9pencil and paper

What to do

- Choose one of the 1-9 cards. Do not put it back in the set.
- Take turns to add the chosen single digit number to each of the 3-digit numbers on the grid.
- · Discuss which answers have crossed the tens boundary.
- Choose a different card and repeat.
- Play for 10 minutes at a time.

QUESTIONS TO ASK



Subtraction

HERE'S THE MATHS

Subtracting ones, tens and hundreds from a 3-digit number means answering calculations similar to: 612 - 5, 612 - 50 and 612 - 500 and missing number calculations $612 - \boxed{} = 607$, $612 - \boxed{} = 562$ and $612 - \boxed{} = 112$. This involves using and applying knowledge of number bonds to 20. An empty number line is a useful model to help your child record their thinking, especially in examples where the tens or hundreds boundary is crossed.

ACTIVITY

What to do

- Choose three different cards from the 1–9 set and write a list of all the possible 3-digit numbers.
- Return the cards to the pack and choose a single card.
- Take turns to subtract the chosen single digit number from each of the 3-digit numbers.
- Choose different cards and repeat.
- Play for 10 minutes at a time.

Variation

• Give the single card a value ten times its face value and subtract that, e.g. if you pick a 4, subtract 40.

QUESTIONS TO ASK



- You will need:
- set of cards with digits 1–9
- pencil and paper