



Year 3

Remote Learning

Maths- Week 11

Overview of activities, learning and progression - Information for parents

This week we will be continuing with our unit of work on **shape**. Last week we focused on identifying 2d and 3d shapes and talking about some of the properties of these. This week we are extending this learning by finding out about **angles** and using this knowledge when working with shapes.

The activities we have chosen are for children to reach the 'expected level', however you may need to simplify these activities or extend them, to suit your child.

End of year expectations in year 3 Geometry - properties of shape:

- Recognise **angles as a property of shape** or a description of a turn.
- Identify **right angles**, recognise that 2 right angles make a half turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle turn.

Video lessons

We have used some online lessons from the **Oak National Academy** this week as they cover our learning around this unit of work. We recognise that this means the children will need more access to a screen for maths this week. We have therefore included ideas below that link to/reinforce some of the objectives in more practical ways. You might choose to do these as extras in or instead of some of the video lessons.

Practical activities that you can do around this learning that don't involve so much screen time:

- Shapes - Create some shape pictures involving as many of the 2d and 3d shapes that you learnt about last week. Label each shape and list its properties.
- Play guess the shape - find a 2d or 3d shape around your home. Keep it in your mind or hold it behind your back and try and describe it to someone in your family without saying its name. Can they guess what it is?
- Obtuse, acute and right angles - A right angle is a 90 degree turn. An obtuse angle is an angle that is bigger than 90 degrees and an acute angle is smaller than a right angle. Draw a maze for someone to follow that has at least 5 right angle turns in it, 2 acute angles, and 3 obtuse angles. You can only use straight lines so you could use a ruler, or the edge of a book.
- Make poster about the three different types of angles. Include pictures of real things you can see that have these angles.
- Draw 6 2d shapes that you know and 4 3d shapes. By each one label the different angles that you can see.
- Write your name in capital letters, which angles can you spot in your name? Find a friend's name that has more right angles than yours, what about someone who has less? Why is that? Which letters do have right angles and which don't?

- Right angles in nature. Can you find any examples of right angles in nature - i.e. trees, twigs on the ground, leaf patterns? Collect some twigs and make pictures that contain examples of the three types of angles.

Useful website links to support learning this week:

BBC bitesize lessons - short clip about different types of angles, watch after the weeks learning: <https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zg68k7h>

Another BBC clip about using angles in real life:

<https://www.bbc.co.uk/teach/class-clips-video/angles/zbxxpg8>

Twinkl -There are some learning packs on twinkl all about angles:

<https://www.twinkl.co.uk/resource/t2-m-17265-year-3-angles-maths-mastery-powerpoint>

Some teaching activities and sheets to print off/copy from:

<https://superbrainybeans.com/maths/angles/year-3-4/>

Video explaining angles in a slightly different way. Watch as a recap after week's learning.

<https://www.youtube.com/watch?v=GZtKuhs6Rc>

Angles song:

<https://www.youtube.com/watch?v=NVuMULQjb3o>

Teaching and Activities - Angles

Session 1 starter

Sort the shapes with these online games. You will need to scroll down to the Venn sorting games. There is one for 2d shapes and another for 3d shapes. You can choose criteria to sort your shapes by.

<https://www.topmarks.co.uk/maths-games/7-11-years/shape-position-and-movement>.

Main activity 1

When two straight lines meet at a point they make an angle. We can also think about an angle as a turn.

Watch this online lesson from the National Oak academy. Lesson 1.

Skip through the starter activity on here - the introductory quiz as it's based around fractions which we haven't covered this year yet.

This first lesson introduces the idea of what an angle is. The children can follow along with the lesson, but might need to pause at points.

<https://www.thenational.academy/year-3/maths/to-identify-and-recognise-angles-year-3-wk4-1>

Session 2 Starter

Mental maths practise - choose a mental maths question sheet from those attached.

Main Activity

Watch this online lesson from the National Oak Academy. Lesson 2.

This lesson recaps learning on what an angle is. It then introduces the idea of angles within 2d shapes.

<https://www.thenational.academy/year-3/maths/to-identify-angles-inside-2-d-shapes-year-3-wk4-2>

Session 3 Starter

Complete the warm up activity that comes at the start of the lesson that you will work on today.

<https://www.thenational.academy/year-3/maths/to-recognise-right-angles-year-3-wk4-3#slide-2>

Main Activity

Today you are going to learn more about angles. You will focus specifically on right angles. Continue with the lesson from above.

<https://www.thenational.academy/year-3/maths/to-recognise-right-angles-year-3-wk4-3#slide-3>

Session 4 Starter

Complete the quiz about right angles at the start of this lesson.

<https://www.thenational.academy/year-3/maths/to-recognise-obtuse-and-acute-angles-year-3-wk4-4#slide-2>

Main Activity

In today's session you will be finding out about 2 different types of angles.

<https://www.thenational.academy/year-3/maths/to-recognise-obtuse-and-acute-angles-year-3-wk4-4#slide-3>

Session 5 Starter

<https://www.thenational.academy/year-3/maths/to-revise-angles-year-3-wk4-5#slide-2>

Main Activity

Today you will be revising what you have learnt about angles this week.

<https://www.thenational.academy/year-3/maths/to-revise-angles-year-3-wk4-5#slide-3>

Applying and reasoning

We have attached some questions that involve the children applying and practising their reasoning skills in relation to angles. You might want to do one of these a day after the video lesson, or save them all for an extra session. They're a good chance for the children to apply what they have learnt this week.

The questions and answers are attached.

You might also want to play some of the games or watch some of the other videos that we listed at the start of this document.