## LIFE/work balance



We have started a \#LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the survey on our website and share it with your colleagues!

## Year 3 - Summer Block 3 - Properties of Shape - Turns and Angles

## About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

## National Curriculum Objectives:

Mathematics Year 3: (3G4a) Recognise that angles are a property of a shape or a description of a turn
Mathematics Year 3: (3G4b) Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle

More Year 3 Properties of Shape resources.

Did you like this resource? Don't forget to review it on our website.

## Step 1: Turns and Angles

Match the starting clock to the durations and the turns that the minute hand has made.

$$
\text { + } 30 \text { mins }
$$



Half turn clockwise

## Quarter turn clockwise

+15 mins


Threequarter turn clockwise

## Match the starting clock to the durations and the turns

 that the minute hand has made.

## Varied Fluency 1

Start at east.
Turn three quarters clockwise. Which direction are you now facing?


## Varied Fluency 1

Start at east.
Turn three quarters clockwise. Which direction are you now facing?


## Varied Fluency 2

What turn does the spinner need to make to get from the dragonfly to the spider?


## Varied Fluency 2

## What turn does the spinner need to make to get

 from the dragonfly to the spider?

A quarter turn anti-clockwise or a three-quarter turn clockwise.

## Varied Fluency 3

If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?


## Varied Fluency 3

If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?


12 o'clock
6 o'clock

## Varied Fluency 4

Sort these images into the table.

| All lines make angles | Not all lines make <br> angles |
| :--- | :---: |
|  |  |
|  |  |
|  |  |



## Varied Fluency 4

Sort these images into the table.


## Problem Solving 1

## lqbal is thinking of a shape.

He says,


Draw the shape that he is thinking of.

## Problem Solving 1

lqbal is thinking of a shape.
He says,


Draw the shape that he is thinking of.


## Problem Solving 2

After a three quarter turn anti-clockwise, you are now facing the zebra. Which animal were you facing when you started?


## Problem Solving 2

After a three quarter turn anti-clockwise, you are now facing the zebra. Which animal were you facing when you started?


## Reasoning 1

A compass needle has moved from south to north.
Jon says,


Fiona says,
It has moved a half turn anticlockwise.

Who is correct? Explain how you know.

## Reasoning 1

A compass needle has moved from south to north.
Jon says,


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Who is correct? Explain how you know.
Both Jon and Fiona could be correct because...

## Reasoning 1

A compass needle has moved from south to north.
Jon says,


Fiona says,
It has moved a half turn anticlockwise.

Who is correct? Explain how you know.
Both Jon and Fiona could be correct because a half turn in either direction from the same starting point will end up at north.

