# Mathletics White Rose Maths (WRM) Spring Scheme of Learning, 2018 Alignment with Mathletics

	Week 1 Week 2 We	ek 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place (within 10					n and Subtraction nin 10)		Geometry: Shape	Number: Place Value (within 20)		Consolidation
Spring	Number: Addition and Subtraction (within 20) (Multi		( (Multip	(within 50) Lengt		rement: Measurement: th and Weight and ight Volume		Consolidation			
Summer	Number: Multiplicati and Division (Reinforce multiples of 5 and 10 to be includ	of 2,	Number: Fractions		Geometry: position and direction	Va	r: Place lue n 100)	Measurement : money	Ti	me	Consolidation

This alignment document has been based on the White Rose Maths (WRM) scheme of learning available on the TES website. It contains the alignment information for the Spring Scheme of Learning.

Year 1 - Yearly Overview







# Spring Scheme of Learning, 2018

Alignment with Mathletics



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#### Purpose:

The aim of this document is to support Mathletics teachers, who use the WRM schemes of learning, to make full use of the resources available within Mathletics. Whenever possible, activities, pages from the eBooks or learning experiences on Rainforest Maths have been matched to each of the small steps on the corresponding WRM scheme of learning.

In Mathletics, many eBooks are available in the student interface, however all eBooks are available to teachers through the teacher console. These topic-based eBooks contain practice and fluency exercises, along with application questions and games. Only a small selection of the relevant pages is contained in this document.

Links to Rainforest Maths, which can be found in the 'Play' area in the Mathletics student interface, have also been included. This resource has engaging visuals which work well on interactive whiteboards and gives pupils further opportunities to practise their learning online.

#### Course selection:

A specific Mathletics course has been created in alignment with this WRM scheme of learning. You may wish to set this course for your class/groups.

#### England Yr 01 WRM Autumn and Spring Aligned





Student Growth



Blended Learning

### Spring Scheme of Learning, 2018

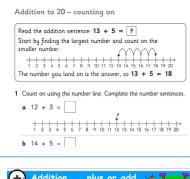


Alignment with Mathletics

### Examples of alignment to Mathletics Block 1 (Weeks 1-4) Number: Addition and Subtraction

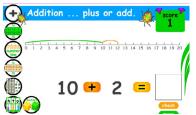
National Curriculum Objectives	WRM Small Steps
<ul> <li>Represent and use number bonds and related subtraction facts within 20.</li> <li>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</li> <li>Add and subtract one-digit and two-digit numbers to 20, including zero.</li> <li>Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = [ ] - 9.</li> </ul>	<ul> <li>Add by Counting On</li> <li>Find &amp; Make Number Bonds</li> <li>Add by Making 10</li> <li>Subtraction - Not Crossing 10</li> <li>Subtraction - Crossing 10 (1)</li> <li>Subtraction - Crossing 10 (2)</li> <li>Related Facts</li> <li>Compare Number Sentences</li> </ul>

#### Small step: Add by Counting On



eBook, B series: Operations with Number, pages 28–30 Pupils solve additions up to 20 by counting on using a number line.

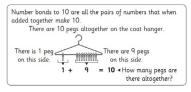
These pages also contain a game for pupils to play in pairs. Using counting on as a strategy for addition, they put together rockets.



#### Rainforest Maths – Level C – Addition ... plus or add

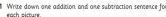
Pupils practise counting on using a number line to add 2 numbers with a total up to 20.

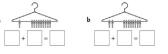
#### Small step: Find & Make Number Bonds



eBook, B series: Operations with Number, pages 1–13

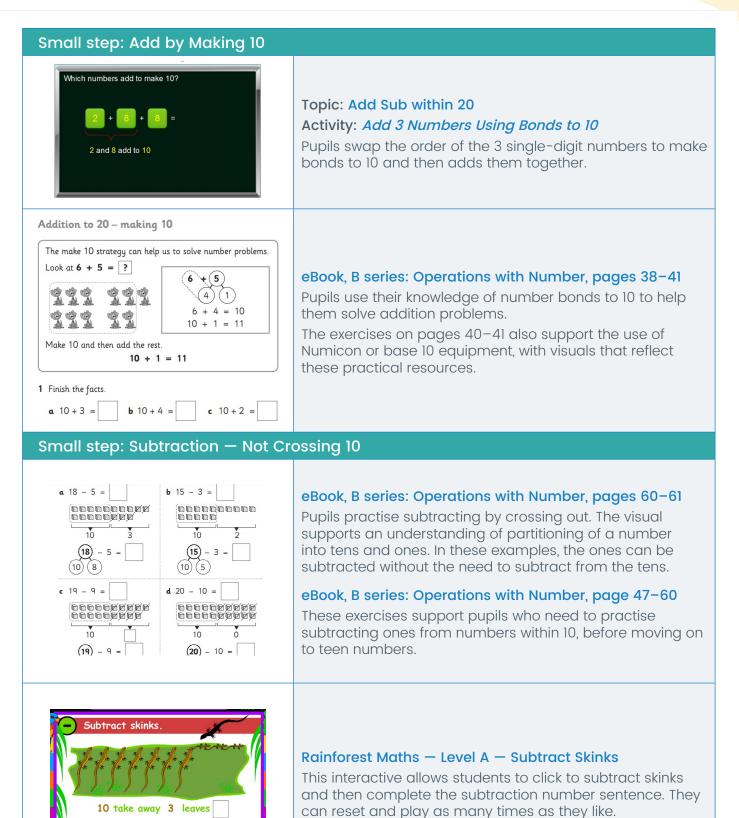
Pupils practise finding and making number bonds for numbers from 5–10. The exercises illustrate number bonds in a range of different ways.





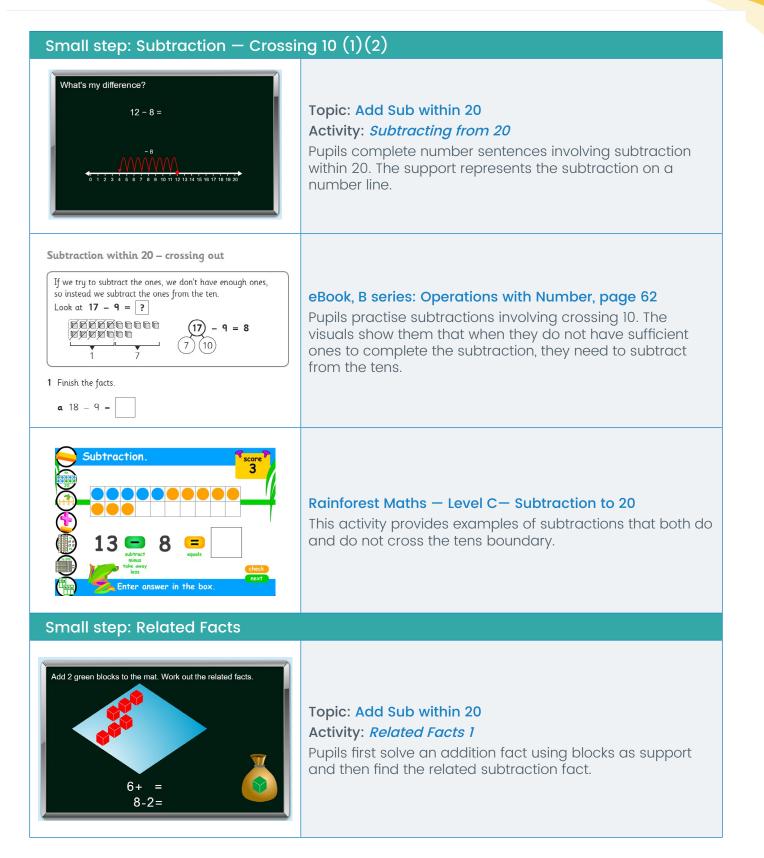
# Spring Scheme of Learning, 2018





# Spring Scheme of Learning, 2018

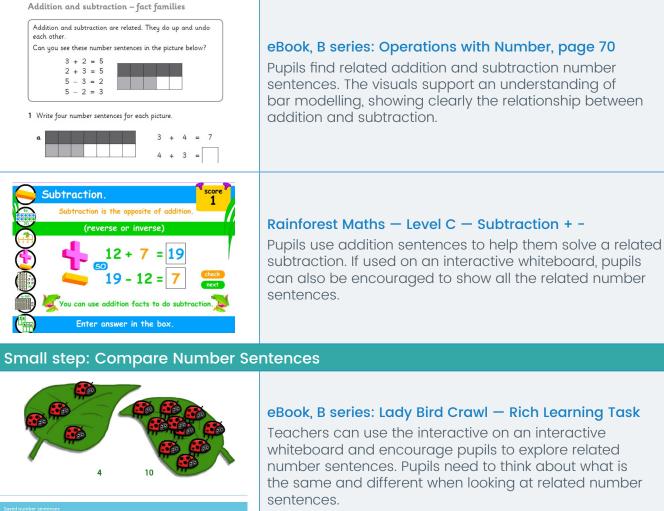




# Spring Scheme of Learning, 2018

Alignment with Mathletics

📫 and 10 📫 Is 14 📫 altogether 🔹



The activity can be extended by asking pupils to think of the related subtraction sentences and recording them.

### Spring Scheme of Learning, 2018



**Alignment with Mathletics** 

### Examples of alignment to Mathletics Block 2 (Weeks 5-7) Number: Place Value

National Curriculum Objectives	WRM Small Steps
<ul> <li>Count to 50 forwards and backwards, beginning with 0 or 1, or from any number.</li> <li>Count, read and write numbers to 50 in numerals.</li> <li>Given a number, identify one more or one less.</li> <li>Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.</li> <li>Count in multiples of twos, fives and tens.</li> </ul>	<ul> <li>Numbers to 50</li> <li>Tens and Ones</li> <li>Represent Numbers to 50</li> <li>One More One Less</li> <li>Compare Objects within 50</li> <li>Compare Numbers within 50</li> <li>Order Numbers within 50</li> <li>Count in 2s</li> <li>Count in 5s</li> </ul>

#### Small step: Numbers to 50



#### eBook, B series: Numbers, pages 29-31

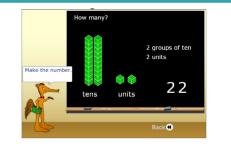
Pupils count as they join the numbers from 1–50 to create the picture. Further exercises encourage pupils to practise counting forwards and backwards from 0–50, with written and oral activities.



### Small step: Tens and Ones

#### Rainforest Maths – Level B – Count to 50

Frogs are shown in rows of tens and ones and pupils select the number card to match the number of frogs.



### Topic: Number within 50 Activity: *Making Numbers Count*

Pupils count the tens and ones blocks shown and record the 2-digit number.

### Spring Scheme of Learning, 2018

**Alignment with Mathletics** 

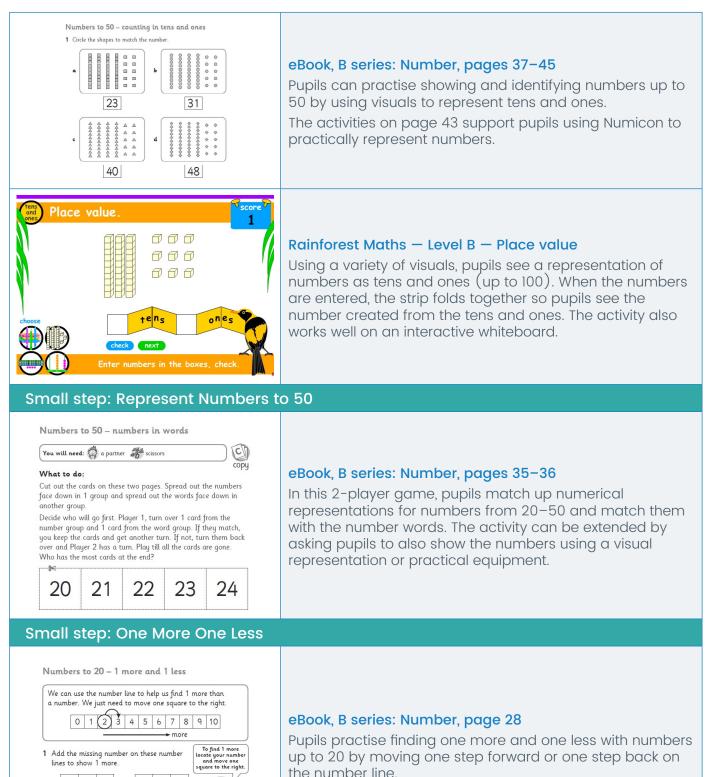
a 3 4

• 5 6

ь 7 8

d 1

2



### Spring Scheme of Learning, 2018

Alignment with Mathletics

#### Small step: Compare Objects within 50

26

#### Topic: Number within 50 Activity: *Compare Numbers to 50*

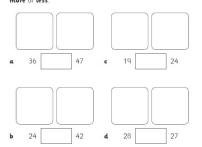
Pupils compare two 2-digit numbers represented with place value blocks (up to 50), using inequality symbols.

**Mathletics** 

Numbers to 50 – comparing numbers

Select: < or >

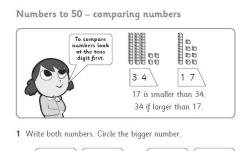
 Use multilink cubes to compare these numbers then write more or less.



#### eBook, B series: Number, pages 47-49

Pupils use various representations of numbers to 50 to make comparisons using the language of 'more' or 'less'.

#### Small step: Compare Numbers within 50



#### eBook, B series: Number, pages 46-48

Pupils identify the number represented by visuals of tens and ones and then circle the bigger or smaller number.

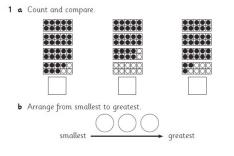
Additional exercises on these pages also represent numbers to 50 with visuals that support the use if Numicon and the introduction of place value cards.

#### Small step: Order Numbers within 50

0000

Numbers to 50 - comparing numbers

000



#### eBook, B series: Number, page 49

Using visuals that support the use of Numicon and base 10 equipment, pupils identify numbers to 50 and then order them from smallest to largest.

### Spring Scheme of Learning, 2018

Alignment with Mathletics

#### Small step: Count in 2s

Skip counting – in 2s

 Fill in the missing numbers. Say them out loud as you write them.

1	3	5	7	9
11	13	15	17	19
21	23	25	27	29

#### eBook, B series: Number, pages 63–65

These pages include activities where pupils practise counting in 2s out loud, by recording the numbers and by drawing groups of 2 objects. There are activities to be completed by individuals and for collaborative work.

**2** Count in 2s to find how many eyes are looking at you.

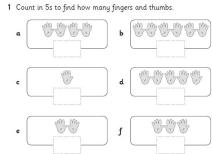


#### Rainforest Maths – Level B – Count by 2s

Pupils count in 2s as they add groups of 2 frogs. They can also subtract groups of 2 frogs and count in 2s backwards.

#### Small step: Count in 5s

Skip counting – in 5s



Butterfly count ... by 5s.

#### eBook, B series: Number, pages 66–67

Pupils practise counting in 5s, recording the numbers and drawing groups of 5 objects.

#### Rainforest Maths – Level B – Butterfly count ... by 5s

Pupils add groups of 5 butterflies and count on in 5s. They can then subtract groups of butterflies and count back in 5s.

## Spring Scheme of Learning, 2018



**Alignment with Mathletics** 

### Examples of alignment to Mathletics Block 3 (Weeks 8–9) Measurement: Length and Height

National Curriculum Objectives	WRM Small Steps
<ul> <li>Measure and begin to record lengths and heights.</li> <li>Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half).</li> </ul>	<ul> <li>Compare Lengths &amp; Heights</li> <li>Measure Length (1)</li> <li>Measure Length (2)</li> </ul>

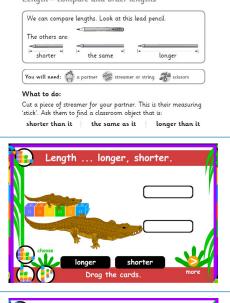


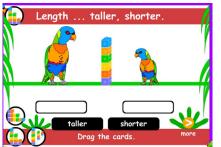


#### Topic: Measurement (Length & Height) Activity: *Everyday Length*

Pupils choose the shortest/tallest, shortest/longest or thinnest/widest of 4 objects.

Length - compare and order lengths





#### eBook, B series: Measurement, page 2

Pupils work with a partner. Using a non-standard measuring stick (eg a streamer or string), they compare the length of objects, sorting them into 'longer than', 'shorter than' and 'the same as' the length of their measuring stick.

#### Rainforest Maths - Level A- Length

Pupils compare the lengths of 2 creatures and choose the correct labels to describe which is longer and which is shorter.

#### Rainforest Maths – Level A– Length

Pupils compare the heights of 2 creatures and choose the correct labels to describe which is taller and which is shorter.

### Spring Scheme of Learning, 2018





# Spring Scheme of Learning, 2018



**Alignment with Mathletics** 

### Examples of alignment to Mathletics Block 4 (Weeks 10–11) Measurement: Weight and Volume

National Curriculum Objectives	WRM Small Steps
<ul> <li>Measure and begin to record mass/weight, capacity and volume.</li> <li>Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].</li> </ul>	<ul> <li>Introduce Weight &amp; Mass</li> <li>Measure Mass</li> <li>Compare Mass</li> <li>Introduce Capacity</li> <li>Measure Capacity</li> <li>Compare Capacity</li> </ul>

Small step: Introduce Weight & Mass



#### Topic: Weight and Volume Activity: *Everyday Mass*

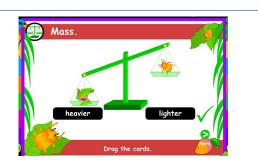
In this activity, an unbalanced scale is presented. Pupils click to add objects to 1 side in order to balance the scale.

Mass – using balance scales





Tell someone how you decided which one was heavier.



#### eBook, A series: Measurement, pages 17-23

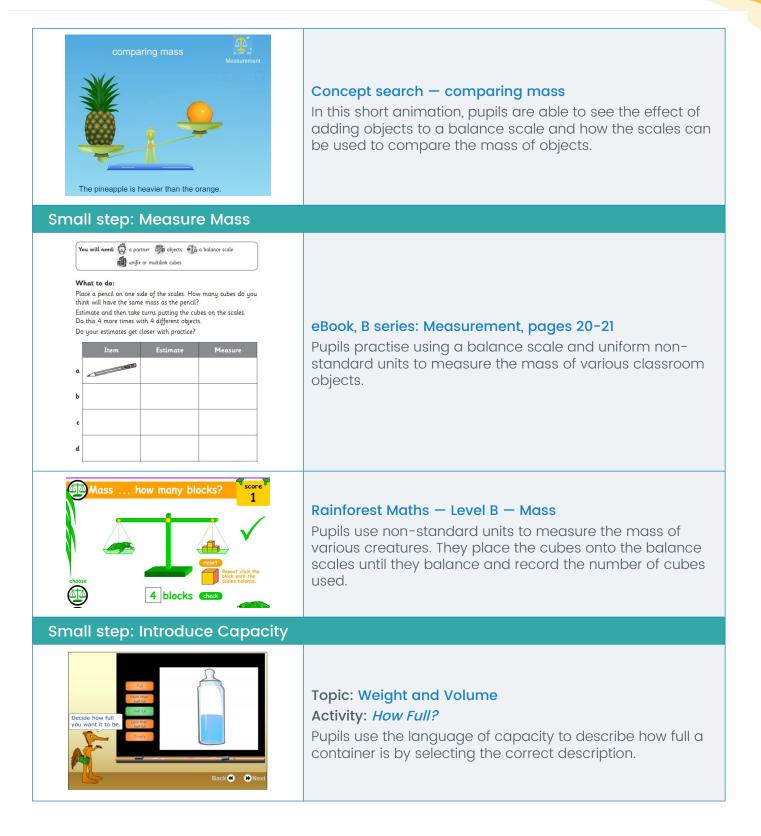
In these pages the concepts and language of weight and mass are introduced. Pupils use direct comparison to describe objects as 'heavier' or 'lighter'. Balance scales are also used to illustrate the concepts.

#### Rainforest Maths - Level A - Mass

Pupils practise 'reading' a balance scale to determine which object is 'heavier' and which is 'lighter'.

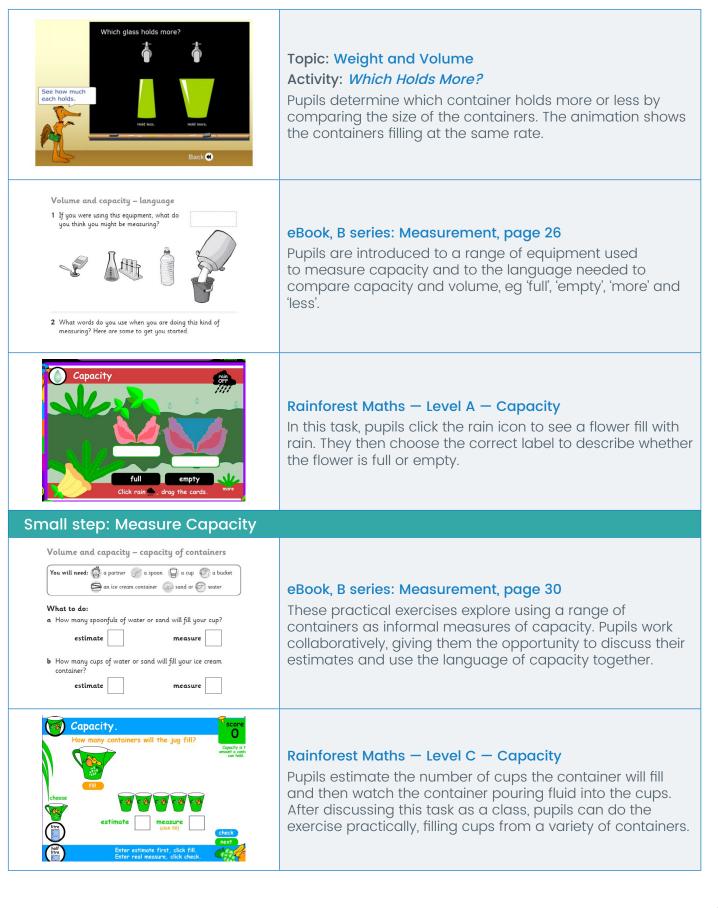
### Spring Scheme of Learning, 2018





### Spring Scheme of Learning, 2018

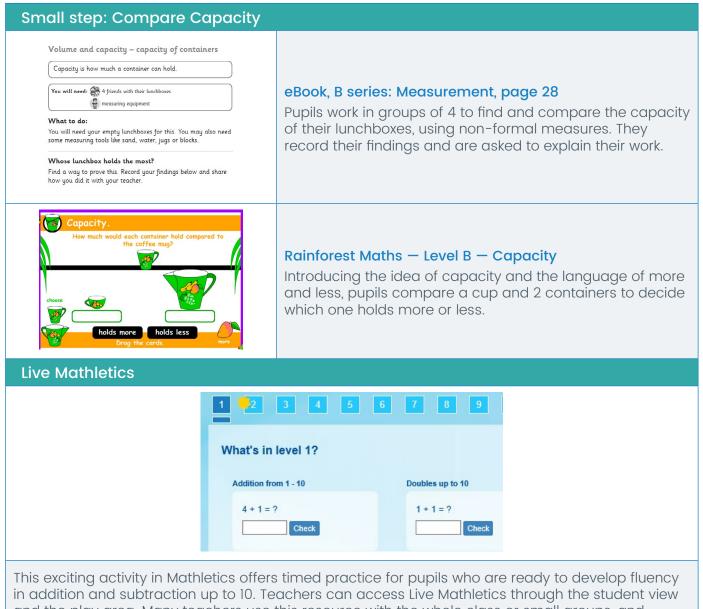
Alignment with Mathletics



# Spring Scheme of Learning, 2018

Alignment with Mathletics





in addition and subtraction up to 10. Teachers can access Live Mathletics through the student view and the play area. Many teachers use this resource with the whole class or small groups, and have pupils either calling out answers or recording on whiteboards. If they do access the game independently, they can select to play against their peers, the computer, or with other pupils from around the world.



For more information about Mathletics, contact our friendly team.

www.mathletics.com/contact

