

The search is on for the UK's next astronaut – and Major Tom wants your pupils' help in selecting the best person for the job. He's found six well-suited candidates, all with different qualifications – but it's up to you to decide which one will win

The Race into Space!



Whole School Challenge







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The Race Into Space



The two essential elements of this activity are the opening film –which should be shown to every participating class – and the Classroom Missions. However, there are plenty more resources here for you, all available in age–differentiated formats. And if you decided to use everything, we'd suggest the following structure ...

- 1. Opening Film you'll need audio for this
- 2. Where Would You Go? (literacy) PowerPoints and worksheets
- Maths Warm-Up (maths) worksheets (which need to be printed in landscape format)
- 4. Classroom Mission (maths/science) PowerPoints
- 5. Going into Space (literacy) PowerPoints and worksheets
- 6. Closing Film you'll need audio for this

There's also a short introductory film just for you and your colleagues – in which Major Tom, of the British Isles Space Agency explains exactly what's going on!



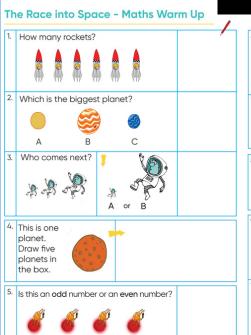
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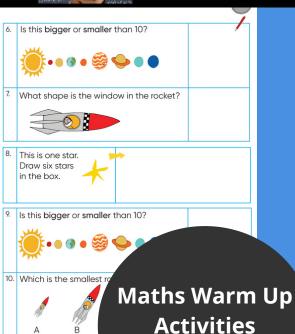
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EYFS / KS1



Bone Density

BASA Test 1

Look at Maria. To find out how high her bone density is, you need to multiply her Bone Element by 5 ... and then add Key Number 1 ...

Candidate	Bone Element	x 5	Key No. 1	Bone Density A
Harry	2	10	23	33
Maria	4	20	22	
Kyle	6		21	
Yasmin	10		7	
Dr Dane	8		22	
Stacey	9		11	

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There is hardly any gravity in the International Space Station ...

So life is very different!

Some people cope better with this than others.

St. Constinue



There is almost no gravity on the International Space Station ...

... which affects the **bone density** of the astronauts who work there.

Some people cope better with this than others.

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Classroom Mission challenges for every year group....







Ability to Work in Small and Confined Spaces

B SA Test 1

To make **fair comparisons**, we need to adjust each candidate's actual time by multiplying it by five.

	Candidate	Minutes taken for Jigsaw 1	Adjusted Time (A)
	Harry	32	160
٠	Maria	36	180
	Kyle	32	
	Yasmin	26	
	Dr Dane	24	
	Stacey	23	

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Kidney Function

BASA Test 1

What about Yasmin? Work out what number should go in Column A for Yasmin ...

Candidate	Kidney Function	Day 1	А	Day 2	В	Day 3	С
Harry	100	1/4	25	1/5	20	1/2	50
Maria	100	1/5	20	3/4	75	3/ ₁₀	30
Kyle	100	1/2	50	1/4	25	3/ ₂₀	15
Yasmin	100	1/5		1/4		³ / ₅	
Dr Dane	100	1/10		7/ ₁₀		1/20	
Stacey	100	2/5		1/10		³ / ₁₀	

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The Candidates

	Who?	Job?	*
711	Harry	Actor A	本林
V	Maria	Pilot	**
9	Kyle	Racing Driver	
A	Yasmin	Scientist	4
2	Dr Dane	Doctor	
	Stacey	Mathematician	
		BISA	





Optic Fluid - Quantity

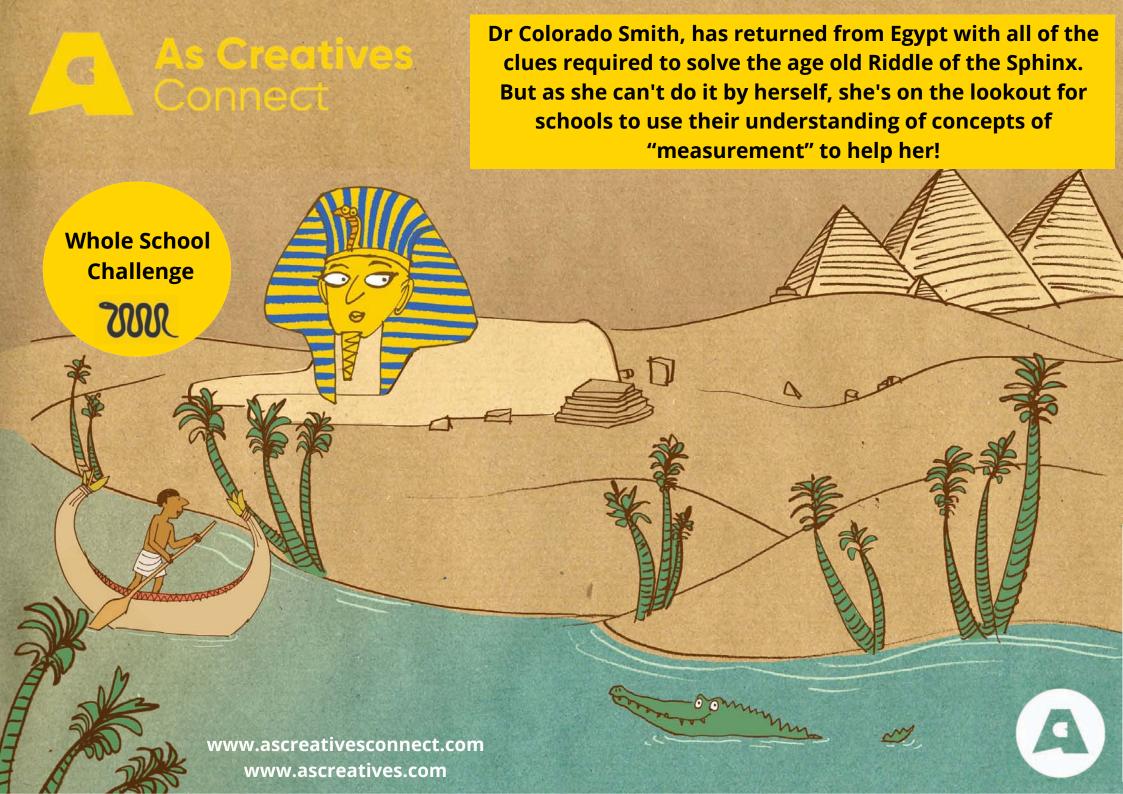
Analysing the Results

Now look at Kyle. Determine the factor pairs for Standardised Result 1 and for Standardised Result 2 – and calculate his **total** number of factor pairs.

BASA Table 2: Factor Pairs

Candidate	Standardised Result (1)	Factor Pairs (1)	Standardised Result (2)	Factor Pairs (2)	Total of Factor Pairs
Harry	24	1 & 24, 2 & 12, 3 & 8, 4 & 6	10	1 & 10, 2 & 5	6
Maria	27	1 & 27, 3 & 9	18	1 & 18, 2 & 9, 3 & 6	5
Kyle	42	1 & 42, 2 & 21 3 & 14, 6 & 7	26	1 & 26, 2 & 13	6
Yasmin	22		15		
Dr Dane	32				
Stacey	36				

Classroom Mission challenges for every year group....





The Riddle of the Sphinx



The two essential elements of this activity are the opening film – which should be shown to every participating class – and the Classroom Challenges. However, there are plenty more resources here for you, all available in age-differentiated formats. And if you decided to use everything, we'd suggest the following structure ...

- 1. Opening Film you'll need audio for this
- 2. What Would You Do? (literacy) PowerPoints and worksheets
- 3. Maths Warm-Up (maths) worksheets
- 4. Classroom Mission (maths) PowerPoints
- 5. Join the Team! (literacy) PowerPoints and worksheets
- 6. Closing Film you'll need audio for this

There's also a short introductory film just for you and your colleagues – in which Dr Colorado Smith, our resident Egyptologist, explains exactly what's going on!



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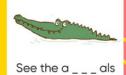
The Riddle of the Sphinx

Join the Team!

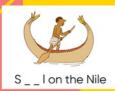


There are lots of things to do in Egypt. Here are a few of them but some of the letters are missing! Can you fill in the blanks?













aligned to the Maths

What would **you** do? One of these – or something else? Draw a picture showing what you would do - and write something about it.

curriculum

How Much Money Do We Need?





What can we use to help us measure?





Power Point Challenges for every year group





The Riddle of the Sphinx Join the Team!

A

Name:	Date:

Well done – you've cracked The Riddle of the Sphinx! Dr Colorado Smith and her team are now able to enter The Inner Sanctum – but she needs your help again already ...

Dr Smith is already planning her next adventure – to sear in the Rain Forest. And she needs a new member of the $t\epsilon$

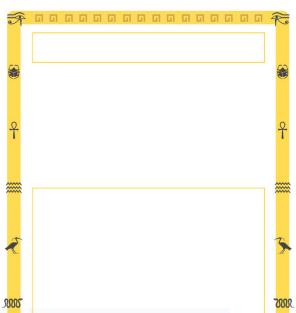
She wants you to **draw a picture** to show what the Guide and what the Guide would be holding.

Underneath your picture, Dr Smith also wants you to **write** what sort of person the Guide should be.



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The Riddle of the Sphinx What Would You Do?



The Riddle of the Sphinx What Would You Do?

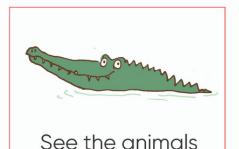


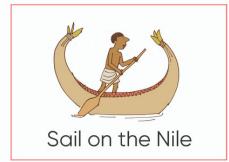
Name:

Date:

There are lots of things to do in Egypt. Here are a few of them ...









What would you do? One of these - or something else?



Vite your choice in the first box on the next page – and **draw a picture** of it underneath.

Follow-up literacy activities

u are a tour guide, welcoming tourists to the activity. Use the other box to write a eech. Make sure you give your guests all the information they need (including any while keeping your speech warm and cheerful, of course. And start it with a

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over the last few years – and it's now time to give something back to a village that's very close to his heart:

Amberton. The trouble is, though, that with so many community groups within the village to choose from, he can't quite decide how to carve his money up!









The Benefactor











I. You have got this

2. You have got this





























3. You have got this much money.

you have got £1.50 left for

Which box of chocolates





A sandwich costs £2.00. A cold

Which three coins v The Benefactor

drink costs £1.00

pay for your meal?

costs £1.00. A packe

50p. You have to po

many coins as poss

will you use?







balloons - but he didn't want any more red ones.

How much would two half crowns be worth in today's money?

Benny bought some balloons for a party to launch the project Red balloons cost £1.00 each.

Benny had £22.00 to spend - and chose 2 red balloons, 1 vellow one, 8 green ones and 2 blue ones. Benny wanted to use all of the rest of the money to buy exactly four

Yellow balloons were twice as expensive as red ones The price of a green balloon was exactly halfway between the price of a red balloon and the price of a yellow balloon.
Blue balloons only cost half as much as red ones.

7. A 1p coin is 1.6mm thick $_$ A 2p coin is 0.4mm thicker than a 1p coin $_$ A 5p coin is 0.3mm less thick than a 2p coin $_$ A 10p coin is 0.1mm thicker

- Pile 4: 1 x 5p, 1 x 2p, 1 x 1p Pile 5: 1 x 10p, 1 x 5p, 1 x 1p Pile 6: 1 x 20p, 1 x 10p, 1 x 2p Pile 7: 1 x 50p, 1 x 10p, 2 x 2p

Opening and

Closing films

10. Benny changed £200.00 into Euros, for a trip to Paris, For every pound. he got 1.2 Euros. He only spent half of those Euros – so he changed what he had left into

dollars, for a trip to New York. For every Euro, he got 1.1 dollars. He only spent half of those dollars – so he changed what he had left back into pounds, for a trip to come home again. For every Euro, he got 80 pe How much did Benny end up with?

The Benefactor

The two essential elements of this activity are the opening film - which should be shown to every participating class - and the Budget Challenges. However, there are plenty more resources here for you, all available in age-differentiated formats. And if you decided to use everything, we'd suggest the following structure ...

- 1. Opening Film you'll need audio for this
- 2. Working With a Windfall (literacy) PowerPoints and worksheets
- 3. Maths Warm-Up (maths) worksheets

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- 4. Budget Challenges (maths) PowerPoints
- 5. Helping Hands (literacy) PowerPoints and worksheets
- 6. Closing Film (*two versions)- you'll need audio for this

There's also a short introductory film for you and your colleagues - in which Benny Factor, our philanthropic inventor, explains exactly what's going on!

*Please note that there are two versions of the Closing Film. You should use the version titled "whole school" if the whole school has been involved in The Benefactor – and the other version when only an individual class/year group has been working on the challenge.







EYFS / KS1





Helping Hands



You've worked really hard to help Benny – and Cherry Tree will get her Community Garden!

Strawberry's Music Festival





£161!



As Creative:



How much have we spent so far?

£20 + £16 = ?



£20 + £16 = £36

Classroom challenges for every year group....











Item	Cost
Artist's Fee	£3,200.00
Clay	£600.00
Bronze	£4,500.00
Marble	
Construction	
Sub-To	otal
Emergencies	
To	otal

£1,328!



Emily Weir's Inclusive Football Club



challenges for every year group....



The Benefactor - Helping Hands

Name: Date:

You've worked really hard to help Benny – and Cherry Tree **will** get her Community Garden! Now **she** wants your help, too – to spread the word among the villagers!

Can you think of a good name for the garden – to remind people how good it will make everyone feel?

Use the first frame to **draw a picture of the garden**. Use the space below to **write the name you have chosen** and **two things** that people will be able to do in the garden.

ity

The Benefactor - Working With a Windfall

Do

Name:

Imagine that a rich person (or a group of wealthy people or a rich organisation) had given you a large sum of money to put to a good cause. Write a letter to the **donor** to tell them how you are planning to use the **windfall** – and the good it will do..



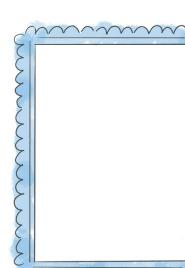
The Benefactor - Helping Hands

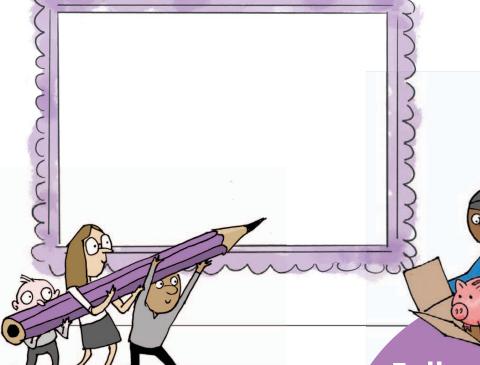
me: Date

You've worked really hard to help Benny – and Tabitha Grylls **will** get her Adventure

Playground! Now **she** wants your help, too – to spread the word among the villagers!

Think of **three reasons** why the Adventure Playground will be good for the village. Write them in the three picture frames. If you have time, add some illustrations!





Follow-up literacy activities

Family Maths







Year Group Challenges

4 and 5 year olds

6 and 7 year olds

8 and 9 year olds

10 and 11 year olds





You can share the resource with parents/carers in two ways

- by sending them all the files electronically ..
- by providing them with printed copies of the documents (although these are supplied in colour, they all work in black and white). Please note the challenges are set to be printed in landscape mode.

Please do not send them the link that we have sent you – because they will not have access to this. Please remember, too, that your link will expire in three months – so make sure you download and save everything before then!

- a short introductory film (families without IT facilities will not be disadvantaged, as all the information is also available in other formats) ...
- a Welcome Pack for parents/carers, containing full instructions. We recommend that you strongly stress the importance of looking through this before starting on the challenges themselves.
- a set of challenges for EYFS/P1 children coded with an image of a phone ...
- a set of challenges for Year 1 and 2/P2 and 3 children coded with an
- a set of challenges for Year 3 and 4/P4 and 5 children coded with an image of
- a set of challenges for **Year 5 and 6/P6 and 7 children** coded with an image of a **sofa** ...

answers are included at the end of each challenge.

As Creatives Connect has also developed digital packages allowing teachers to deliver some of our most popular activities themselves, without us even reading to set float in school. These book Day, Discore man of two weakers are some of the school. The sold Day Discore man of two weakerselves soon. And on top of that, our Stationarium, Worlds packages provide you with more than enough material to any our own whole-school themsel WOVI dought The Extraordinary Worlds of Prices, Space, Food and Football are already available — with the Extraordinary Worlds of Prices, Space, Food and Football are some of the weakerselves sometimes.





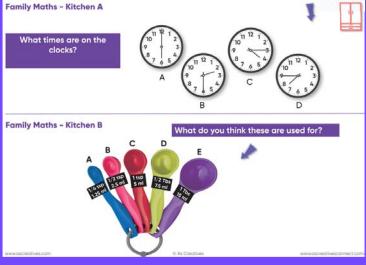


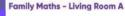


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What can you see? What toys do you most like to play with? Why?



Family Maths - Living Room B

What can you see?

What is your favourite television proc



Maths in **Everyday Life!**