



## Maths

**Today is St George's Day!** St George is patron saint not only of England but also of Aragon, Catalonia, Georgia, Lithuania, Palestine, Portugal, Germany and Greece; and of Moscow, Istanbul, Genoa and Venice. Here are the flags for some of these countries:

England



Georgia



Portugal



Greece



Istanbul (Turkey)



Palestine



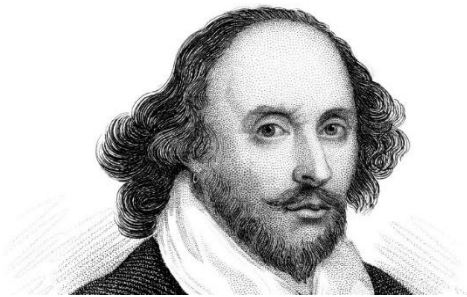
1. Choose one flag and identify all the parallel and perpendicular lines.
2. Choose a different flag and estimate the size of 4 angles – think about whether the angle is acute/obtuse to guide your estimation.
3. Choose a different flag and a colour on it. Calculate the fraction of the flag that is your chosen colour. What is that as a percentage?
4. Choose a different flag and show its lines of symmetry.
5. Choose a different flag. If it has lines of symmetry change the design so that it is no longer symmetrical. If it does not have any lines of symmetry, change the design so that it has two lines of symmetry.

## English

Today is also believed to be the famous playwright, William Shakespeare's birthday.

Can you help him with the punctuation in this passage?

He seems to have forgotten where to use possessive apostrophes. Can you find any words that require apostrophes?



### *Macbeth: The Witches Spell*

*Double, double toil and trouble;  
Fire burn and cauldron bubble.  
Fillet of a fenny snake,  
In the cauldron boil and bake;  
Eye of newt and toe of frog,  
Wool of bat and tongue of dog,  
Adders fork and blind-worms sting,  
Lizards leg and howlets wing,  
For a charm of powerful trouble,  
Like a hell-broth boil and bubble.*

*Double, double toil and trouble;  
Fire burn and cauldron bubble.  
Cool it with a baboons blood,  
Then the charm is firm and good.*

## Science



- ~ What is this?
- ~ How does it work?
- ~ What does it power?
- ~ How old is it?
- ~ Who built it? Why?
- ~ What does it sound like?

**Create an advertising poster for this piece of equipment using the information from the questions.**

**Challenge** – How else can energy be created from renewable resources?