

Year 7 Independent Study

To be completed during the week commencing 24/06/19

Due dates during the week commencing 01/07/19

Deadline Day	Subject Due	Which Section Do I Need To Learn?
Monday	Maths	Section 5, shape within a space
Tuesday	Geography	The effects of flooding, hard/soft engineering, factors that affect flooding
Wednesday	PE	Skills components of fitness
Thursday	Art	The artists Martyna Zoltaszek and M.C. Escher.
Friday	English	Any aspect of the Twelfth Night knowledge organiser; you have revised it once before. Challenge yourself to think of new and more difficult questions.

Martyna Zoltaszek is an artist and illustrator. She works at Jamaica Street Studios in Bristol. Her work is inspired by an admiration for the intricacies of nature. Her bright neon paintings are exhibited worldwide, and are collected across continents.



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M.C. Escher is a Dutch Artist (1898-1972), was a draftsman, book illustrator, tapestry designer, and muralist and print maker. Escher sketched landscapes and nature. He also sketched insects such as ants, bees, grasshoppers.



Factors that effect flooding	
Heavy rainfall	Saturated soil
Long periods of rain	Baked soil
Snow melt	Urbanisation
Steep slopes	deforestation
Impermeable rocks	

Primary effects of flooding	Secondary effects of flooding
Damage to buildings and roads	Disruption to services
Destruction of vegetation	Displacement of people
Death	Hunger and famine
Injury	Spread of diseases
Damage to cars and personal belongings	Loss of jobs/ unemployment
homelessness	Sediment build up
Water contamination	Change in course of the river
Death of animals and livestock	Lack of clean drinking water
Hard engineering	Soft engineering
Dams and reservoirs	Afforestation
Embankments	Managed flooding
River straightening and dredging	Urban planning
Flood relief channels	Policy making

Twelfth Night Knowledge Organiser		The plot
"Some are born great, some achieve greatness and some have greatness thrust upon 'em."		
The characters		
Viola Exeunt	Protagonist. A twin. Shipwrecked. Disguise herself as a boy. Falls in love with Orsino.	1. Viola and Sebastian are shipwrecked and separated. Both think the other has died. Orsino is in love with Olivia. Olivia is in mourning for her brother and refuses his attentions. Viola disguises herself as a boy (Cesario) and works for Orsino.
Orsino	Protagonist. Duke. In love with Olivia. Marries Viola.	2. Sebastian and Antonio are firm friends. Olivia falls in love with Cesario. Viola falls in love with Orsino. Maria, Sir Toby, Feste and Sir Andrew play a practical joke on Malvolio for spoiling their fun.
Feste	Clown which serves both Orsino and Olivia.	3. Olivia declares her love for Cesario which is rejected. Malvolio is humiliated by the practical joke and locked up. Sir Andrew prepares to fight Cesario but is interrupted by Antonio who thinks it is Sebastian. Antonio is arrested. Viola realises Sebastian might be alive.
Maria	Servant of Olivia. Comes up with the plan to humiliate Malvolio.	4. Sebastian arrives and fights Sir Toby. Olivia stops the fight and tells Sebastian she loves him, thinking that it is Cesario. She asks him to marry her. He agrees. Meanwhile the others continue to torment Malvolio.
Sir Andrew	Sir Toby's best friend who wants to marry Olivia.	5. Orsino arrives at Olivia's house with Antonio. Antonio takes out at Cesario thinking it is Sebastian. Orsino and Sebastian appear. True identities revealed. Orsino marries Viola and Malvolio is released.
Conventions of the Comedy Genre		
Mistaken Identity: The plot of a Shakespearean comedy is often driven by mistaken identity. Characters also play games in disguise and it is not uncommon for female characters to disguise themselves as male characters.		
Example plots: The climax of the play always occurs in the third act and the final scene has a celebratory feel when the lovers finally declare their feelings for each other.		
Love: Sets of lovers who, through the course of the play, overcome the obstacles in their relationship and unite.		
Comedy through language: Shakespeare's comedies are peppered with clever wordplay, metaphors, and puns. They play a hand in the hero's downfall.		
Malvolio: a state of being miserable or depressed	Reverend language: sophisticated used to address someone of rank	Pun: a joke exploiting the different possible meanings of a word
Clown: used in society. Inserted once the celebration of Twelfth night when the lower get to be "topped"	Off stage: action or speech occurring off stage	Aside: a remark or passage in a play that is only intended to be heard by the audience
Musical song: Used to set the tone of the scene	Hyperbole: exaggerated statements or claims not meant to be taken literally.	Oxymoron: a figure of speech in which apparently contradictory terms appear in conjunction
		Sonnet: a poem of fourteen lines using only formal rhyme schemes, typically having ten syllables per line.
		Soliloquy: an act of speaking a character's thoughts aloud but the audience to hear.
		Dramatic irony: where the audience knows more than the characters do.

Skill Components

- 7. Balance → The ability to maintain a centre of mass above a base of support
- 8. Coordination → Being able to use two or more body parts at once to complete a motor task efficiently
- 9. Reaction Time → The time taken to respond to a stimulus
- 10. Power → The combination of speed and strength
- 11. Agility → The ability to change direction at speed without losing balance



Section 5 – Space within a Shape	
Area of a Rectangle	Length x Width
Area of a Triangle	$\frac{1}{2} \times (\text{Base} \times \text{Perpendicular Height})$
Area of a Parallelogram	Base x Perpendicular Height
Area of a Trapezium	$\frac{1}{2} (a + b)h$ (a & b are parallel)
Area of a Circle	πr^2