

Year 8-Workbook 3

See times suggested as a guide.

If there is no suggested time, then try to spend between 40 minutes and 1 hour.

Good Luck and do your best!

English

Year 8:

- Imagine you have the power to change the world right now. You can achieve anything. Write your first speech as leader of your new world. What have you changed? How are things better? Who have you helped? (45 mins- 1hr)
- Research another culture/ create an informative leaflet about a place outside the UK. Focus on culture, customs and traditions. (1hr-1hr 30 mins)
- Find the meaning of the following words. Write a paragraph for each explaining how each word links to the world you live in: Equality, prejudice, justice, freedom, solidarity. (20 mins per word)
- Use your imagination to create an interesting short story with the title 'Power'. Use a range of punctuation and language devices. (45 mins- 1hr)
- Listen to 3 songs that you think are about freedom. Make a list of all the lyrics you hear that link to the idea of freedom. (30 mins) Use this as inspiration to write your own song about freedom. (45 mins)
- Create a poster advertising the UK to visitors from abroad. Focus on the positive aspects of the UK and use persuasive devices (DAFOREST) to entice people into visiting. (30-45 mins)

Year 8 Mrs Doyle's Group

- Read any book, comic or newspaper for 20 minutes every day. (Spend 20 mins per day on this)
- Who is a hero in your eyes? Is it your mum, dad, carer or doctor/nurse? Write a description of your hero. Why are they your hero? What did they do for you? (Planning 25 minutes - writing task 30 minutes with rereading and correction time)

<p>English</p>	<ul style="list-style-type: none"> • If you could be a superhero what would be your superpower? Write a newspaper report about what your superhero achieved. Would you be able to listen through walls and hear secret conversations? Would you have super sight, be able to read all secret documents? The superpower to be invisible, you could play pranks on people. (If you can research what an article looks like including the layout - 15 minutes) (plan the article using the questions above as your structure in your article 25 minutes. Write the article up to 40 minutes with rereading and correction time) • Draw your superhero and label all superpowers. (35-45 minutes depending on artistic details) • Write a slogan that can help us to remember to social distance in our classrooms. Use alliteration, make it funny, make it colourful. We can then decorate our classrooms with the best ones. (If you can do some research into this 15 minutes. Write the slogan 25 minutes) • Describe what you would like your first day to look like in Holy Trinity when we all come back as a school community. (30 minutes with reread/correction time)
<p>Maths</p>	<p>We know that some of you do not have access to the internet or to an electronic device such as a laptop at home. If this is the case please, complete the following tasks on paper and keep in a file for your return to school;</p> <ol style="list-style-type: none"> 1) Write out your times tables up to 12 x 12. Focus on learning your 6s, 7s, 8s, 9s and 12s. These are the hardest times tables to memorise but once you know them, they will help you with division, ratio, fractions and even solving equations. You should be able to answer any times table question in a split second! 2) Write out the square numbers up to 20x 20. Eg $1 \times 1 = 1$, $2 \times 2 = 4$, $3 \times 3 = 9$ etc. Learn these twenty square numbers. It is a very valuable skill to have. Can you then work backwards? Eg $\sqrt{121} = 11$ 3) Produce a poster that will help you remember all of the metric units of measurement and how to convert between them eg to convert cm into metres we divide by 100 etc. Can you think of any ways to help you remember this? 4) Look for any examples in real life of averages being used. What are the three types of average? Can you work each out? Can

<p>Maths</p>	<p>you think of times when each average could be used and times when they can't be used? Write up all of your findings and thoughts. Mathswatch Your teachers have looked at the most important topics that were due to be covered this term and have set you tasks that match up to these topics on mathswatch. There is a video attached to each task so please watch this first. They are designed to help you answer the questions independently.</p> <p>Log in to mathswatch during the times that you would normally have your Maths lesson and work through the topics in the order that they are written in the table. Your teacher will be keeping an eye on the work that you have completed and how you are getting on with it. If you do not know your mathswatch login, please email Mrs McCarthy and she will email it to you. Her email address is amccarthy@holytrc.bham.sch.uk.</p> <p>Good luck and remember, all we ever ask is that you try your best. Stay safe, Mrs Henvey</p> <p>8A Rounding (10, 100, 1000 and decimal points), Estimation, Function Machines and plotting graphs, Gradient and $y=mx + c$, Simplifying ratio, Dividing into a given ratio</p> <p>8S Angles, Transformations, Rounding, Graphs, Ratio & Proportion, Properties of Shapes</p> <p>8P Transformations, Rounding and Estimation, Straight line graphs, Real life graphs, 2D and 3D shapes</p> <p>8I Transformations, Rounding, Graphs, Ratio</p> <p>8R Place value, Coordinates, Rounding to the nearest 10, 10, 1000, Rounding to decimal places, Introduction to ratios, Using ratio for recipes, Rounding to significant figures</p>
<p>Science</p>	<p>1. How do you think the lockdown has affected pollution levels? Have a discussion with someone in your household on ways that ordinary people can act to reduce carbon dioxide emissions. List possible positive and negative consequences of each of these ways. Write a paragraph to evaluate each of these ways. (Suggested time for activity 30 minutes.)</p> <p>2. Describe what the reactivity series is and carbon's position in the series. Describe how displacement reactions are used to obtain metals from compounds. (Suggested time for activity 40 minutes.) You may wish to use the following link to help you: https://www.bbc.co.uk/bitesize/guides/zqwmxnrb/revision/1</p> <p>3. Describe what is meant by an endangered species. Research what is meant by captive breeding. Write a paragraph explaining</p>

Science	<p>some of the advantages and disadvantages of captive breeding. (Suggested time for activity 60 minutes.)</p> <p>4. State what is meant by the term extinct. Describe some factors that may lead to extinction.(Suggested time for activity 30 minutes.)</p> <p>5. State what is meant by biodiversity. Can you name examples of areas where there may be high biodiversity and areas of low biodiversity? Suggest ways to increase biodiversity. (Suggested time for activity 30 minutes.) You may wish to use the following link to help you: https://www.bbc.co.uk/bitesize/guides/zw9jq6f/revision/3</p> <p>6. Describe the electromagnetic spectrum. Describe all the waves of the electromagnetic spectrum in terms of increasing wavelength or increasing frequency. Describe the effect of radiation on living cells. Compare transverse and longitudinal waves. (Suggested time for activity 60 minutes.) You may wish to use the following link to help you: https://www.bbc.co.uk/bitesize/clips/zhtkq6f</p>
Religious Education	RE – see separate Year 8 RE pack
MFL	<p>Project on a French or Spanish speaking country - chose a country which speaks either French or Spanish and create a fact file detailing as much information about the country, culture, traditions, food, population, weather etc</p> <p>Create a tourist leaflet or poster with key phrases in French/Spanish to advertise why you should come to the country you have chosen.</p> <p>Find the flags of 20 different countries and translate the countries in to French/ Spanish.</p> <p>Use linguascope and duolingo to learn new vocabulary and reinforce previously learnt vocabulary</p>
Humanities	<p>Humanities Challenge Project</p> <p>This task is related to your experiences during lockdown. You are to create a time capsule that you can keep / bury (whatever you like really!) that outlines your lockdown experiences. This time capsule is something you can open in 10-20 years time or any date of your choice. This situation will go down as one of the most unprecedented events in History. Your time capsule could include:</p> <ul style="list-style-type: none"> • Daily activities

	<ul style="list-style-type: none"> • Newspaper cuttings or stories that have been significant • Diary entry – highs and lows of lockdown • Handprints • Paintings • Photographs • Anything you like really! Just have fun with it!
History	See separate work book - Year 8 The Slave Trade
Geography	See separate work book - Year 8 The Plastic Project
Computer Science	<p>Digital Devices</p> <p>1) What is an input device?</p> <p>a) any piece of computer hardware that is used to communicate the results of data that has been processed by a computer system</p> <p>b) any piece of computer hardware used to provide data to a computer system</p> <p>c) a piece of computer equipment on which data can be stored</p> <p>2) What is an example of an input device?</p> <p>a) a microphone</p> <p>b) a speaker</p> <p>c) a monitor</p> <p>3) What is an output device?</p> <p>a) any piece of computer hardware used to provide data to a computer system</p> <p>b) a piece of computer equipment on which data can be stored</p> <p>c) any piece of computer hardware that is used to communicate the results of data that has been processed by a computer system.</p> <p>4) What is an example of an output device?</p> <p>a) a keyboard</p> <p>b) a mouse</p> <p>c) a monitor</p> <p>5) What is a storage device?</p> <p>a) a piece of computer equipment on which data can be stored</p> <p>b) any piece of computer hardware that is used to communicate the results of data that has been processed by a computer system</p> <p>c) any piece of computer hardware used to provide data to a computer system</p> <p>6) What is an example of a storage device?</p> <p>a) a hard drive</p> <p>b) a keyboard</p> <p>c) a monitor</p>

<p>Computer Science</p>	<p>7) What is a logic gate? a) a type of programming language b) a digital electronic device that allows an electronic system to make decisions based on inputs c) a storage device</p> <p>8) How can logic gate calculations represented? a) as a document b) as a programming language c) as truth tables</p> <p>9) For an AND gate, how many of the inputs have to be 1 for the output to be 1? a) 0 b) 1 c) both</p> <p>10) If the input of a NOT gate is 1, what will the output be? a) 0 b) 1 c) 2</p> <p>11) An input device is any piece of computer hardware used to provide data to a computer system. Give as many examples as you can.</p> <p>12) An output device is any piece of computer hardware used to communicate the results of data that has been processed. Give as many examples as you can.</p> <p>13) A storage device is a piece of computer equipment which can be used to store data. Give as many examples as you can.</p> <p>14) Design a Super Computer and label all the hardware component parts that will go inside the machine.</p> <p>15) Design a new piece of software to run on your new super computer.</p>
<p>Art</p>	<p>Year 8 Plastic Project</p> <p>It is your job to create a piece of work (poster, infographic, collage, model) to educate people on the dangers of plastic and why we need to ensure that plastic does not end up in the oceans or any water supply.</p> <p>Your success criteria along with timings is shown below:</p> <ol style="list-style-type: none"> 1. Research key facts about plastic – 1 - 5 hours (This could include watching some TV programmes recently broadcast such as War on plastic with Hugh and Anita; and Drowning in plastic on BBC iplayer / Youtube) 2. Start your design – Key facts (e.g. how much plastic is used by the UK per year? How much plastic is recycled in the UK per year? What countries are the largest producers and consumers of plastic goods?) - 1-2 hours

<p>Art</p>	<p>3. What are the dangers of plastic in our water supply? - 1-2 hours</p> <p>4. How can animal and plant life (biodiversity) be affected by using plastic? - 1 hour</p> <p>5. What solutions can you find to ensure that we reduce the amount of plastic waste on our planet?</p> <p>6. How important is it that we tackle and reduce the impact of plastic waste?</p> <p>7. Challenge – What can be done at your school to reduce plastic waste?</p> <p>Year 8 BANKSY</p> <p>1 Answer these questions in full sentences in a format you choose. Who is BANKSY? What is meant by monochrome? Look at this link</p> <p>https://www.bbc.co.uk/news/entertainment-arts-52556544</p> <p>2 Where has the piece been created? What message is he sharing? Watch the clip, - How do they feel about the piece? What do you think and why?</p> <p>3 Design your own superhero of 2020 Who are they ? What do they do? What do they wear? Draw your figure, try to add tone and as much detail as you can. (think about your colours, will it be like Banksy's piece and show a hint of colour or be bold like traditional superheroes.</p> <p>4 Create a name for your character, design this in a comic style. It could be in an explosion or thought bubble. Could you make it 3D?</p> <p>5 Create a mini storyboard comic, including your superhero, look on the internet or any comics you may have to help with the layout. You could include colour, sound words used in comics or written information to support.</p> <p>Have fun! Good luck, Miss French</p>
<p>Music</p>	<p>Please check your school email address for examples, further resources and tips. Please email me any work or performances you complete - I would love to see / hear it! phancock@holycrc.bham.sch.uk</p> <p>1. If you have access to the internet try out this online piano https://www.onlinepianist.com/virtual-piano You can find tutorials on YouTube to show you how to play different pieces. (30 minutes to 1 hour)</p>

<p>Music</p>	<ol style="list-style-type: none"> 2. Create a body percussion piece: draw out a 4 or 8 beat grid and then make up symbols for different parts of your body (e.g. circle is a stamp, cross is a clap, triangle is a knee slap). Then experiment with putting different symbols into the grid and play the rhythms you created. (15-20 minutes) There will be a video demonstration on the website. 3. Extension – turn your body percussion symbols into musical notation using crotchets, quavers and semiquavers (5 minutes) 4. Keep a listening diary and write down the different pieces of music you listen to each week with a note on what you liked about it and a brief description of the music. (15-20 minutes) <p>5. NOTE: all these tasks can be repeated multiple times with different pieces of music. Task 4 is something you could be doing weekly, not just a one off piece of work.</p> <p>NOTE: all these tasks can be repeated multiple times with different pieces of music. Task 4 is something you could be doing weekly, not just a one off piece of work.</p> <p>See also Body percussion demo on school website if you have access</p>
<p>PE</p>	<p>Complete the following exercises 1-3 times during a week</p> <p>Week 1. -10min speed walk -Complete 40 seconds of each of the following exercises with a 20 second rest between each exercise. star jumps, squats, plank, crunches, lunges, press ups, high knees, bicycle crunches, calf raises. -2min walk</p> <p>Week 2 &3. -12min speed walk -Complete 60 seconds of each of the following exercises with a 30 second rest between each exercise. star jumps, squats, plank, crunches, lunges, press ups, high knees, bicycle crunches, calf raises. -2min walk</p> <p>Week 4. -15min speed walk -Complete 60 seconds of each of the following exercises with a 20 second rest between each exercise.</p>

	<p>star jumps, squats, plank, crunches, lunges, press ups, high knees bicycle crunches, calf raises. -2min walk</p> <p>Use the separate file called 'PE exercise guide' to help you improve your technique.</p>
PSD	See the separate PSD work pack 'Motivation'