



# St Peter's Graduate Scheme



# St Peter's Graduate Scheme

Our Graduate Award Scheme is an exciting opportunity for children in Key Stage 2 to extend their learning beyond the classroom. Pupils can take on extra challenges in different subjects, building their knowledge and skills through independent study at home and in school.

Those who choose to take part will complete a range of tasks before sitting a final challenge when they feel ready. Successful graduates in each subject will be awarded a special badge and be displayed around the school.

This scheme supports our school value of aspiration, encouraging children to aim high, persevere through challenges, and take pride in their achievements.





## St Peter's Graduate Scheme

In order to become a science graduate, children will need to:

- Complete a science investigation at home and write up what you found out
- Do some research about a famous scientist or scientific breakthrough
- Take the online quiz





# St Peter's Graduate Scheme



## Investigation

Choose an investigation from the list and carry it out at home. If you would like any help with getting resources, you can ask your class teacher. You will need to write up your investigation to show your findings.

This must include:

- Details of your experiment including your independent and dependent variable
- How you made your test fair
- Your results presented in a table, graph or both
- A summary of what you found out, including an answer to the question

This could include:

- A photo / video of what you did or explaining your investigation
- A written method
- Graphs / charts made on a computer
- A poster showing your work

Investigation question options:

- **What is the best material for a raincoat? Why?**
- **Does everything you can turn to liquid always turn back into a solid?**
- **Where can you keep an ice cube complete for the longest time?**
- **Can you get all of the salt out of a solution?**
- **Which leaf has the most air resistance?**
- **How does my shadow change throughout the day?**

See an example of what an investigation write-up might look like below!

**Question:**  
Which surface has the least friction?

**What I did**  
I had a slope and a toy car and then a range of different surfaces. I let the car go down the slope and at the bottom of the slope, it went across the different surface. For each surface, I measured how far along the car went before stopping and used this to help me know which surface had the least friction. On the surface with the least friction, the car went further and on the surface with the most it travelled a shorter distance.

**Independent variable**  
Different types of surface

**Dependent variable**  
How far the car goes

**How I made my test fair**  
I used the same car every time and let it go from the same place every time. I also made sure I didn't push the car when I let it go.

**What I found out**  
My results show that glass has the least friction because the car travelled the furthest on the glass surface. Glass is smooth, which means there are less bumps to create friction.

Results	
	Distance travelled (cm)
Carpet	10cm
Wood	14cm
Cardboard	12.5cm
Glass	18cm



# St Peter's Graduate Scheme



## Scientist / scientific breakthrough

Do some research about a famous scientist or scientific breakthrough that we don't learn about in school. Write a summary of your research including:

- What the scientist / breakthrough discovered
- Why the scientist / breakthrough is important
- How the scientist / breakthrough impacts us today

Here are some examples you could choose from:

### Scientists:

- **Rosalind Franklin** - she played a key role in discovering the structure of DNA.
- **Valentina Tereshkova** - the first woman in space
- **Sylvia Earle** - a marine biologist known for deep-sea exploration
- **Mark Dean** - helped invent the personal computer
- **Alexander Fleming** - he developed the first antibiotic, penicillin
- **Stephen Hawking** - studied black holes and helped people understand the universe

### Breakthroughs:

- **Invention of the electric car**
- **Vaccinations**
- **First image of a black hole**
- **Space exploration**
- **Invention of the microwave**
- **Radar**
- **First cloned mammal - Dolly the sheep**

This could be in the form of an essay or a presentation, either on a computer or on paper.



# St Peter's Graduate Scheme



## Online quiz



Our science quiz is based on the Key Stage 2 curriculum and includes questions based on specific knowledge as well as scientific skills.

As revision, the first thing you can explore at our Key Stage 2 knowledge organisers. For each one, look at the key learning and the key vocabulary. You can find our knowledge organisers below.

There is also a link to BBC Bitesize [here](#), which has information about every science topic in Key Stage 2.

When you are ready to take the quiz, ask your class teacher.





# St Peter's Graduate Scheme



## Essay



Choose a question from the list and write an essay about it, aiming for it to be around 500 words. You will need to research the area of history that it is based on in order to form your own answer to the question and then write up your ideas, including evidence from what you have found out.

This essay can be written by hand or on a computer/iPad. If you are struggling for a device at home, you are welcome to use one at school.

An example structure of the essay could be:

- Introduction - stating your point of view with a summary of your main evidence
- 4-5 paragraphs - each one based on a different point to answer the question
- Conclusion - stating your final answer to the question

Your essay should include:

- Your opinion backed up by history facts
- Key dates and time periods involved
- Any important people involved in the specific period

Essay options:

- **What was life like for children in Victorian Britain?**
- **Why did America fight for independence in 1775?**
- **Why was the Mayan Empire so successful?**
- **What impact did the British Empire have on India?**
- **What's so important about the Magna Carta?**
- **What led to the abolition of the slave trade in Britain in 1807?**
- **Why was the Battle of Hastings a turning point in British history?**



# St Peter's Graduate Scheme



## Online quiz



Our history quiz is based on our history curriculum across the school and includes questions based on specific knowledge as well as historical skills.

In order to revise, you will need to explore our history knowledge organisers. For each one, look at the key learning and the key vocabulary. You can find our knowledge organisers below.

For extra revision, you can also take a look at the BBC Bitesize information about history, which you can find [here](#).

When you are ready to take the quiz, ask your class teacher.

WAYGROUND



# St Peter's Graduate Scheme



Ready to go



In progress

+ more coming soon!



## St Peter's Graduate Scheme

If your child would like to get involved...

- Check the school website. All the information and resources are on there.
- Let your class teacher know that they have started it. Teachers are going to keep track of who is doing each subject in order to offer support where needed. If children start, we are not going to force them to finish but if you know they do not wish to complete it, please let the teacher know.
- Ask for help if you're not sure! This is new to all of us and I'm happy for feedback on things that could be improved.



## St Peter's Graduate Scheme

### FAQs

**How long should the children spend on the Graduate Scheme work?**

All Graduate Scheme work should reflect ample time and effort spent and be reflective of the child's ability and classroom work. Submitted pieces will be assessed by the subject lead and the class teacher to ensure this. Graduate Scheme work is not designed to be done in one day! It should take a few weeks to become a graduate in each subject. We would appreciate parents discussing this expectation with children.

**What do the children get for completing the Graduate Scheme?**

Children get a badge specific to each subject that they have graduated in. The hope is that children will collect these badges as they go through Key Stage 2!

**Do children have to complete the Graduate Scheme tasks each year?**

No! Once a child has become a science graduate, they remain one for their time at St Peter's.

**When will the other subjects be ready?**

Hopefully as soon as possible! Computing and PE should be ready within the next few weeks / after half term.