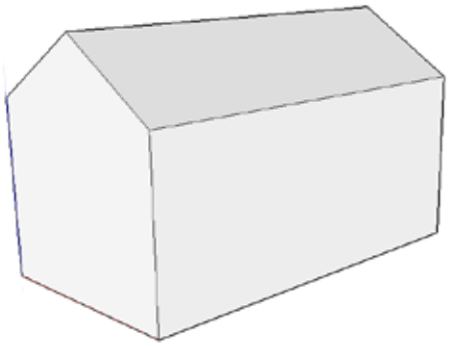
St. Edith's Church
Monks Kirby

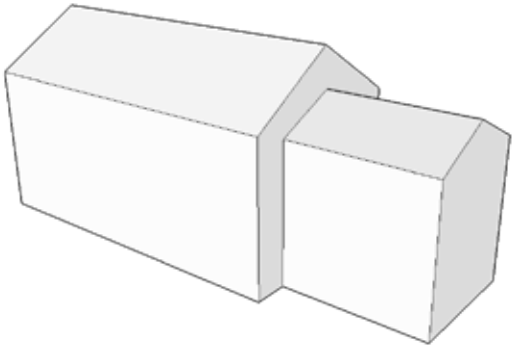
3D Church Model

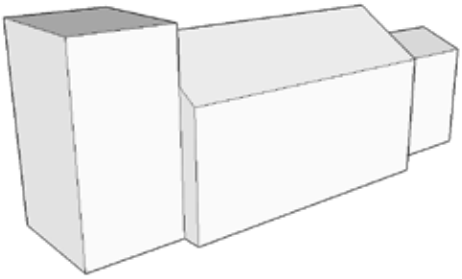
Church buildings are made up of a series of 3 dimensional shapes.
There are different ways you can make a 3D church.

Most churches started as simple buildings

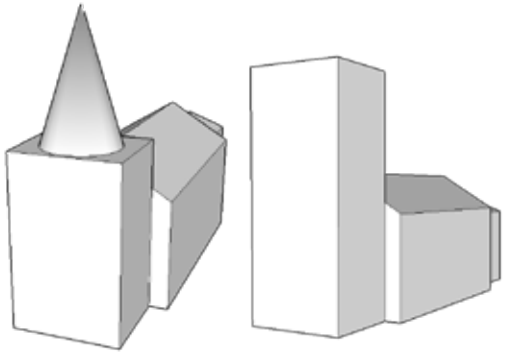


A Chancel was probably the next thing to be built. It houses the altar and choir and is the most sacred part of the church

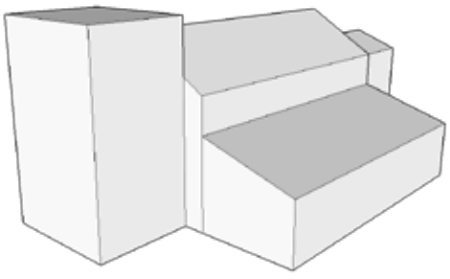


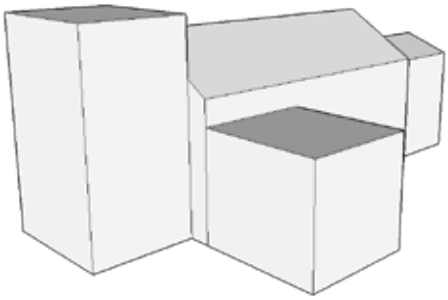


A tower would have been built to house the bells and to make the church look spectacular.
Some towers have spires added to the top or were made taller.

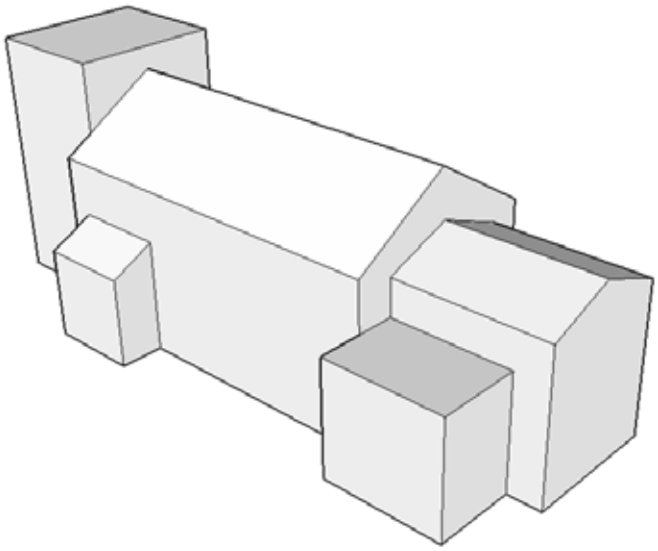


Aisles (left) may have been built on the north and/or south sides of the church to hold more people. Transepts (right) may have been built to give the church a cross shape.
Churches could have a combination of both of these features.

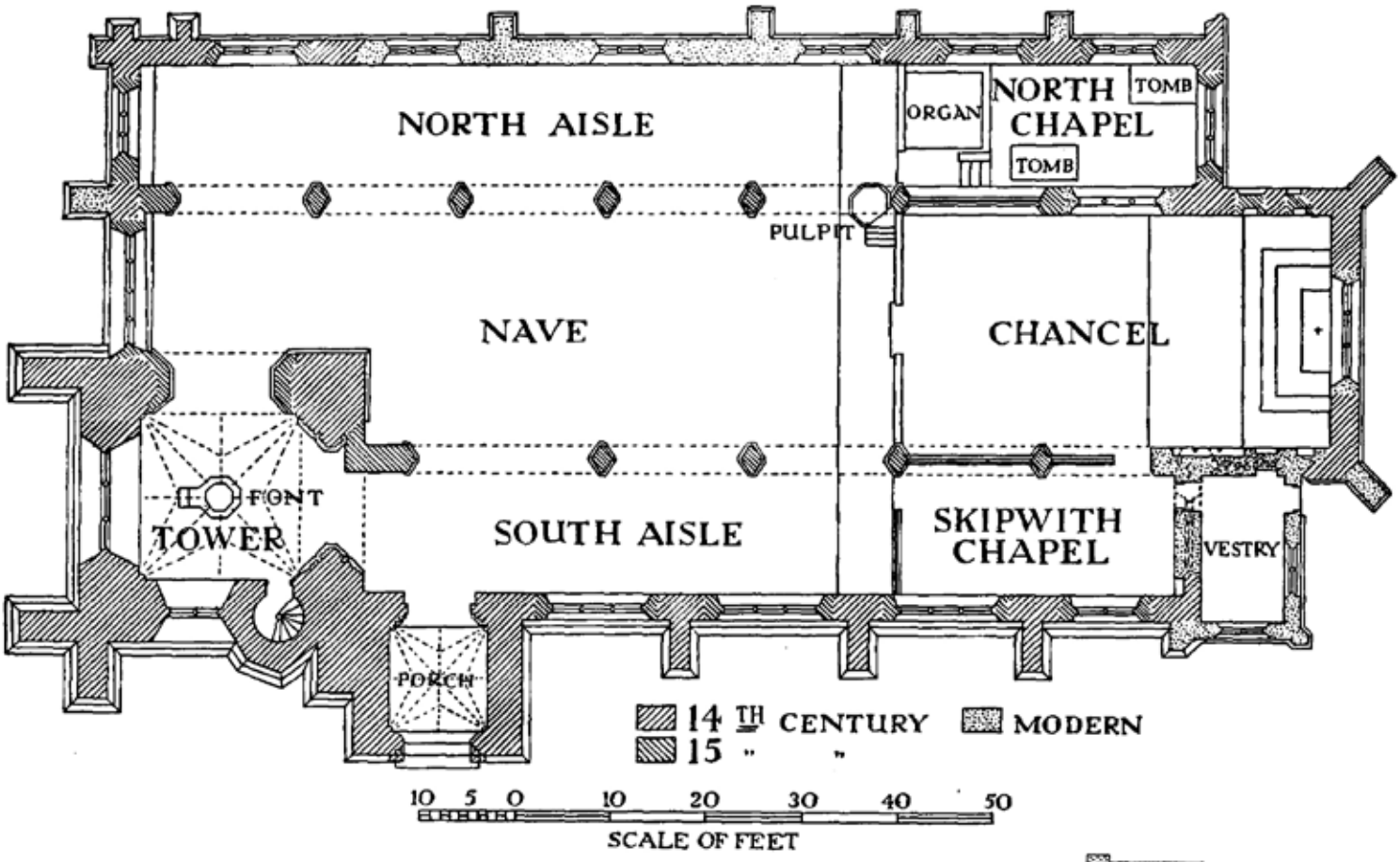


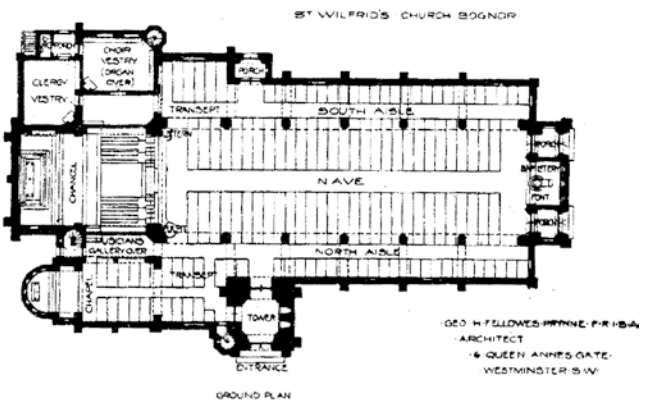


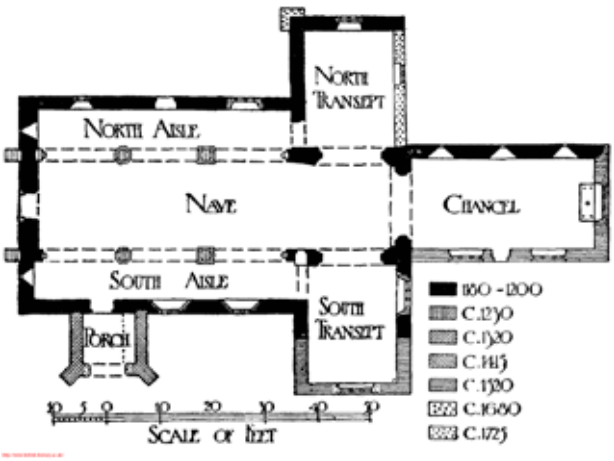
A porch may have been built over the main door to protect the church from bad weather.
Some rich people may have had a special chapel built to commemorate them.



Churches come in all shapes and sizes



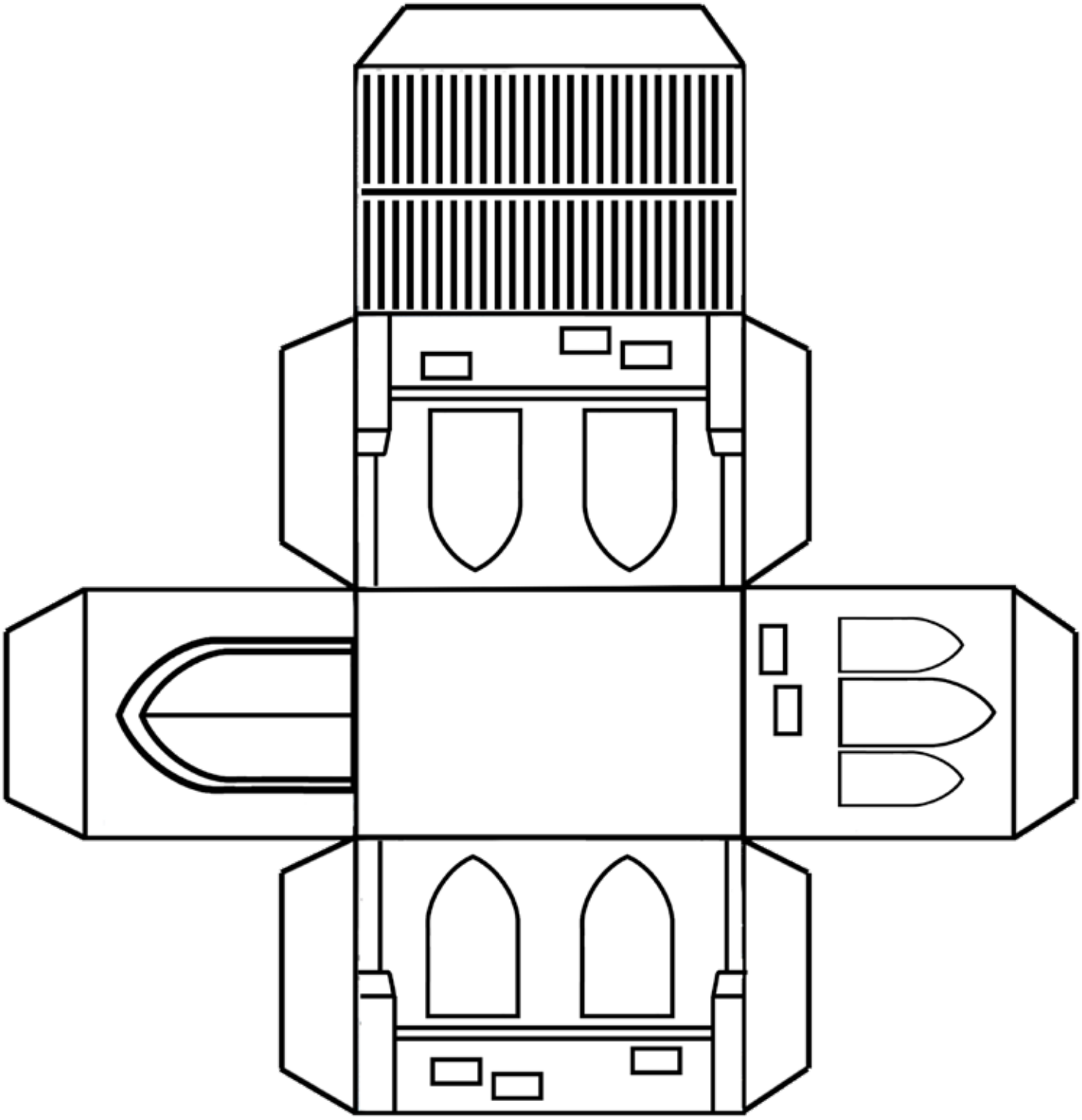




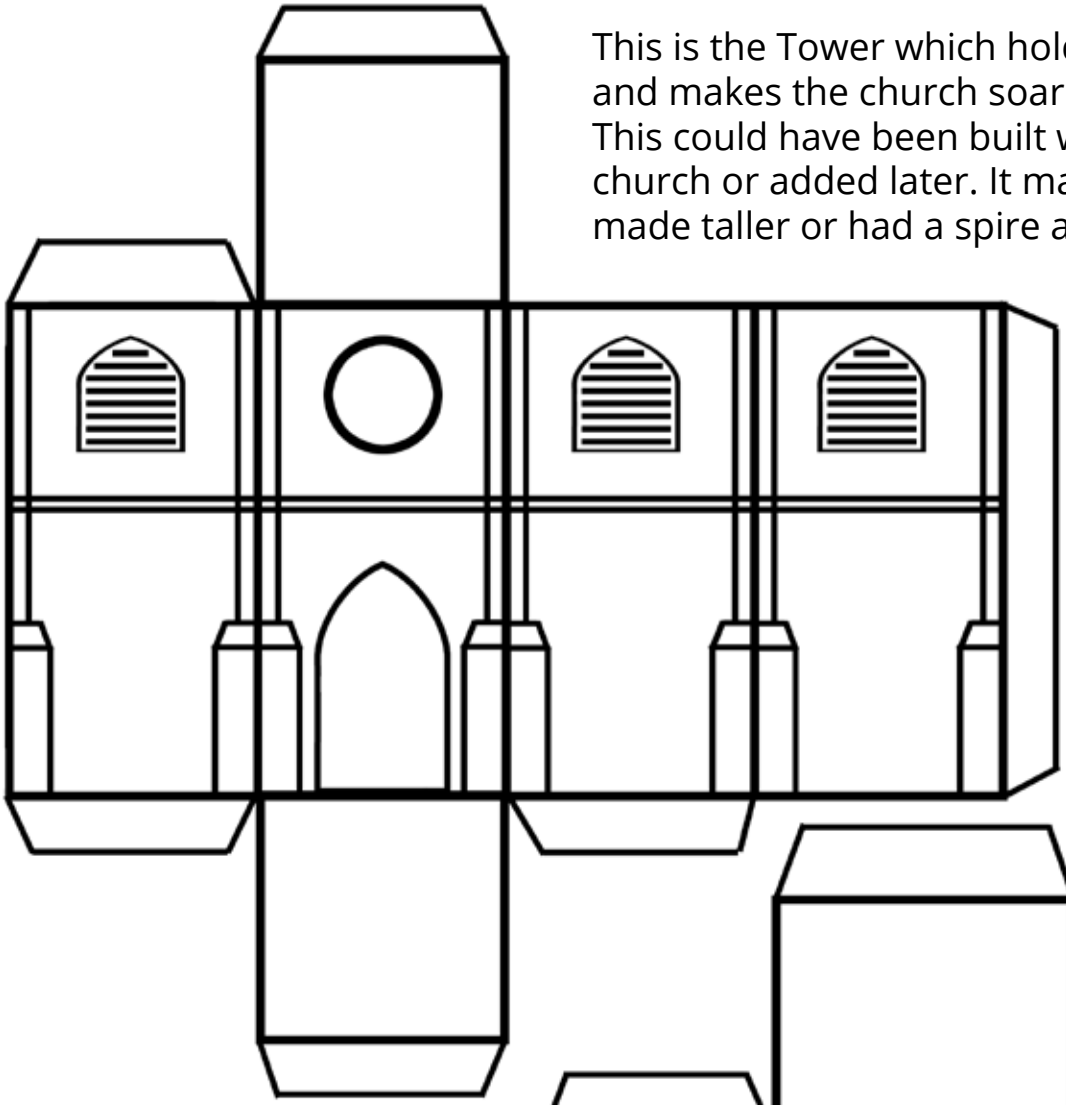
3D Church 1 - Shape Nets

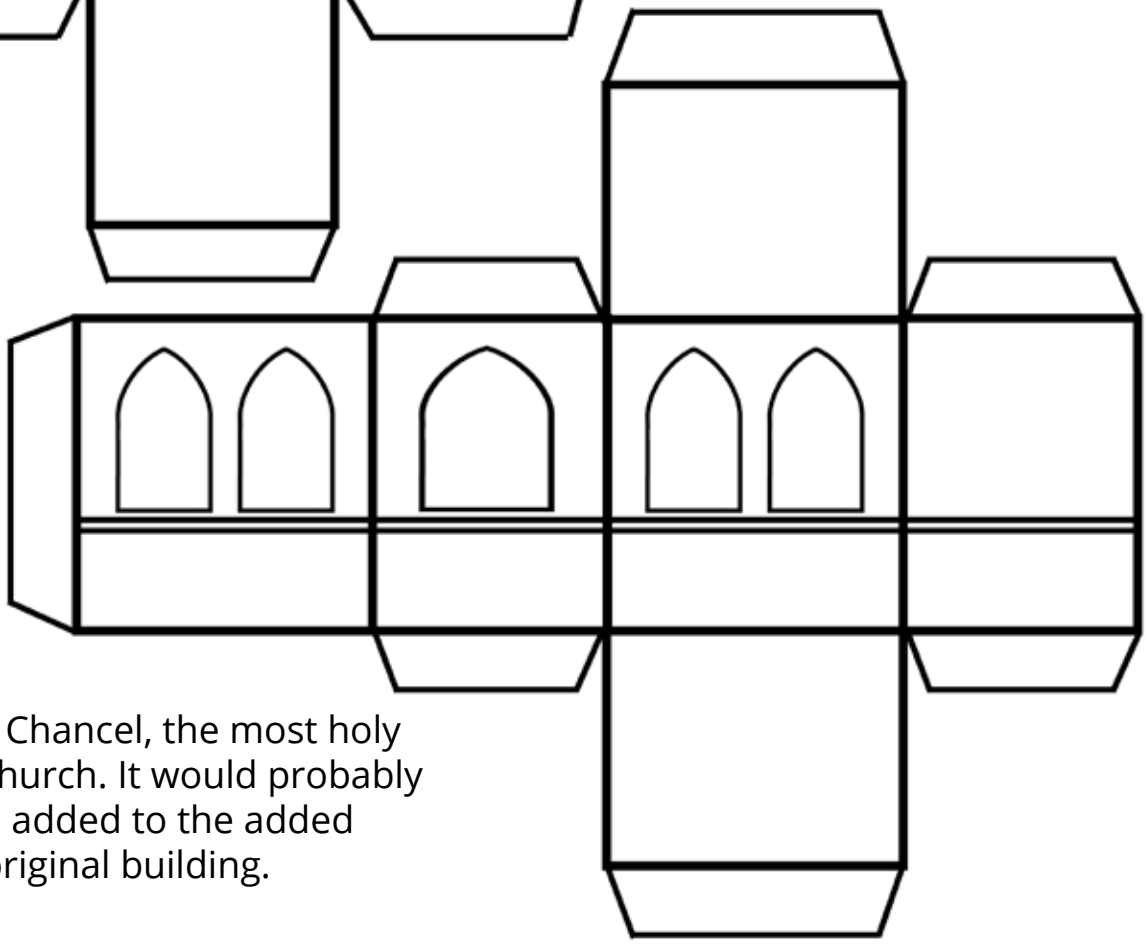
Here is a shape net for a very simple church.
There are also nets for the tower and chancel.
Try them out to get used to cutting out and constructing cuboid shape nets.

The net below is for the main body of the church. Originally it would have been the whole church but when a Chancel was built this part would have become the Nave.

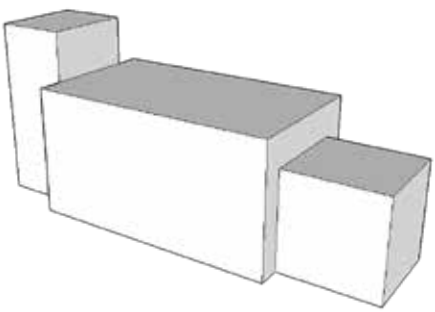


This is the Tower which holds the bells and makes the church soar up to God. This could have been built with the main church or added later. It may have been made taller or had a spire added.





This is the Chancel, the most holy part of a church. It would probably have been added to the added after the original building.



- Print out the shape nets, A3 will be a better size to work with.
- Cut out these shape nets and decorate them as you wish.
- Your finished model will look a little like the picture on the left.
- Try designing shape nets to add Transepts, Aisles, A Porch and Chapel.

Build a church with different materials

A church built of Lego

A church built of Meccano

This one is made of cake!

One made out of matchsticks

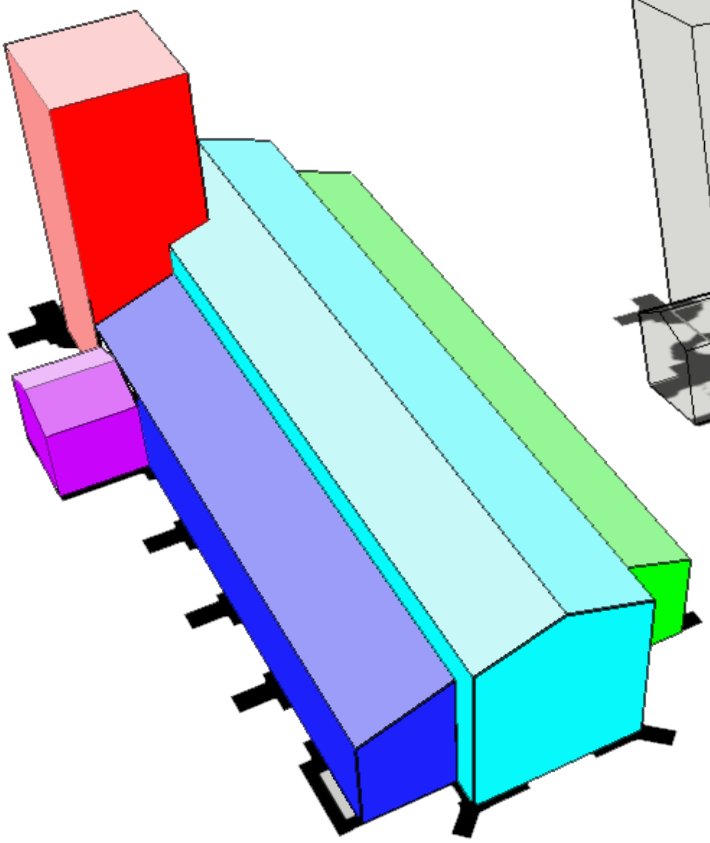
Another made of dismantled pallets

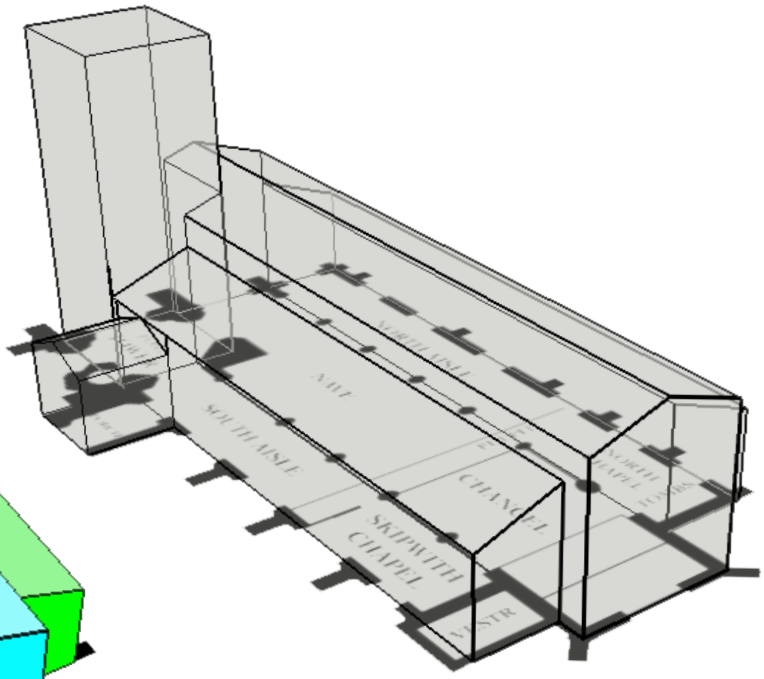
Ready to build kits are available to make

What materials can you use to make a church?

Scaled Model of St Edith's

- You can make a simply scaled model of St Edith's by constructing a series of simple shapes.
- You will need to take some measurements of the church.
- Use the to record your measurement.
- Several groups should measure the same thing to make sure you have it right.
- See the plans below for the basic shape of St Edith's Church.
- Once you have your measurements you need to scale the dimensions down to a manageable size.
- How are you going to do that?
- The sloping roofs can be added later, this will make the construction of the basic nets easier.
- How are you going to measure the height of these tall building?





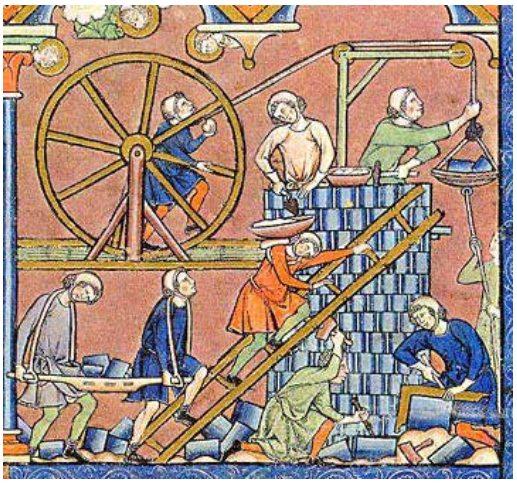
Church Measurements

SHAPE	LENGTH	WIDTH	HEIGHT	SCALED M'MENTS

St. Edith's Church
Monks Kirby

Church Builder

The 15th century reality challenge.
Build a church.
Make the decisions.
Think like a church builder from the 1400s



Your Task

The year is 1468

You are in charge of the money for re-building a village church which has been badly damaged by fire.

You have been asked to make plans for repairing and extending the church and replacing internal fittings which were damaged in the fire.

You must take note of these things…

The church needs to hold 100 extra people now.
In 40 years time it will need to hold 200 more people
(in addition to the 100 above).
You can spend £700 now.
You can spend another £400 in 30 years time.
A rich land owner will add an extra £250 now if a chantry is built for him.

Here are some points to consider…

Discuss what you will build now and in 30 years time.

You can save some of the money you have now to spend in 30 year time.

Use the information sheet to help you.

Use the planning sheets to work things out.

Show all of your calculations.

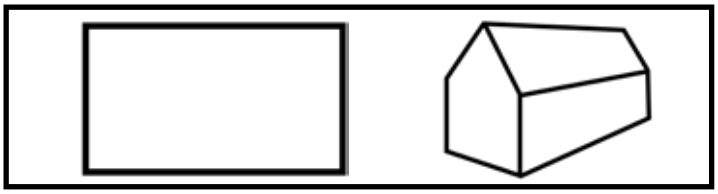
Try different combinations of things before to decide on a final plan.

Make sure you include the things you HAVE to have.

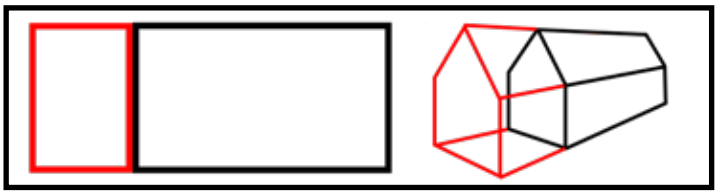
Draw your final plans on the final plan sheet.

Do not use a calculator, they weren't around 500 years ago!

Structural Building Information Sheet

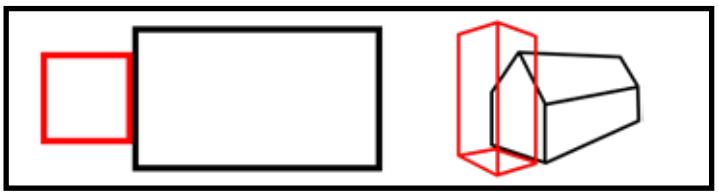


Rebuild north and south walls, and replace the roof.
THIS REPAIR MUST BE DONE.
Cost £150

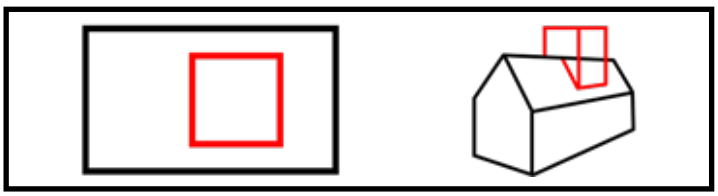


Extend NAVE to hold an extra 150 people.

Cost £150

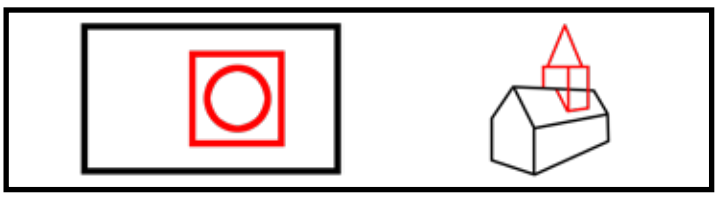


Build TOWER at the end of the church.
Needed for bells and to make the church look much more grand.
Cost £150



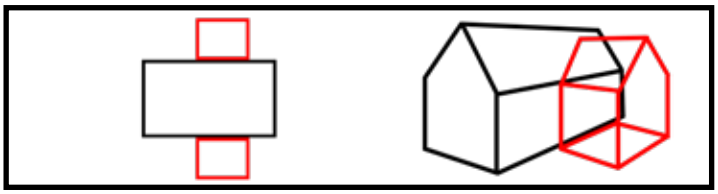
Build the TOWER in centre of church.
You will only need to have one type of tower.

Cost £150

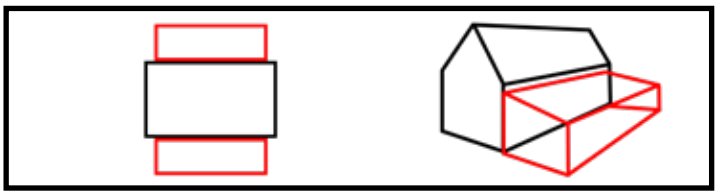


Add a SPIRE to either tower.
Will make the church the best in the county.

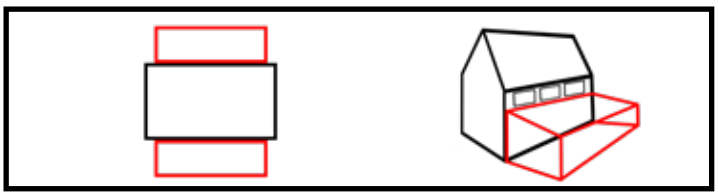
Cost £250



Add two TRANSEPTS to hold 150 people. This will give the church a cross shape.
Transepts can also be added to aisles.
Cost £250

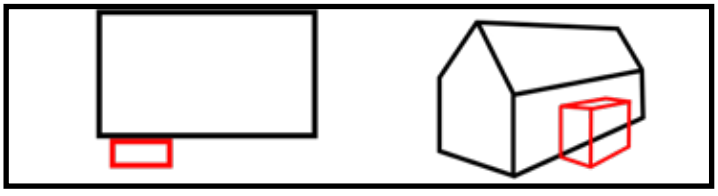


AISLES can be added to either side.
They hold 100 people each but make the nave darker.
Cost £200 per aisle.



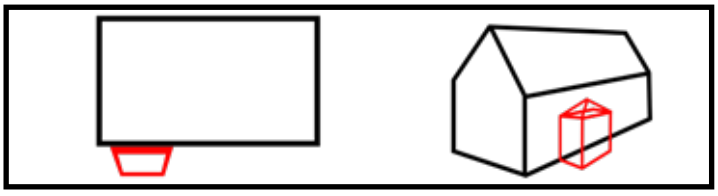
Raise nave walls to make inside brighter.

Cost £300 for one aisle. £400 for two aisles



Build a PORCH to store parish records and protect the main door from the weather.

Cost £100



CHANTRY. A small private chapel which can be added anywhere. You must build one of these for the rich land owner.
Cost £65

Work To Be Done Now

Draw pictures/plans of the work and fittings you are going to buy now.
Write down your costings.
Remember you do not have to, nor will you be able to afford to, do all the work immediately. Churches are long-term projects.

Work To Be Done In 30 Years Time

Draw pictures/plans of the work and fittings you are going to buy now.
Write down your costings.

St. Edith's Church
Monks Kirby

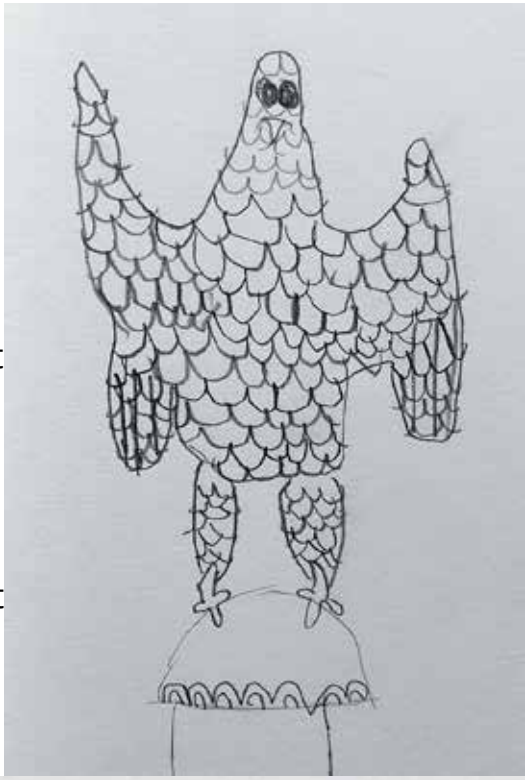
OBSERVATIONAL DRAWING

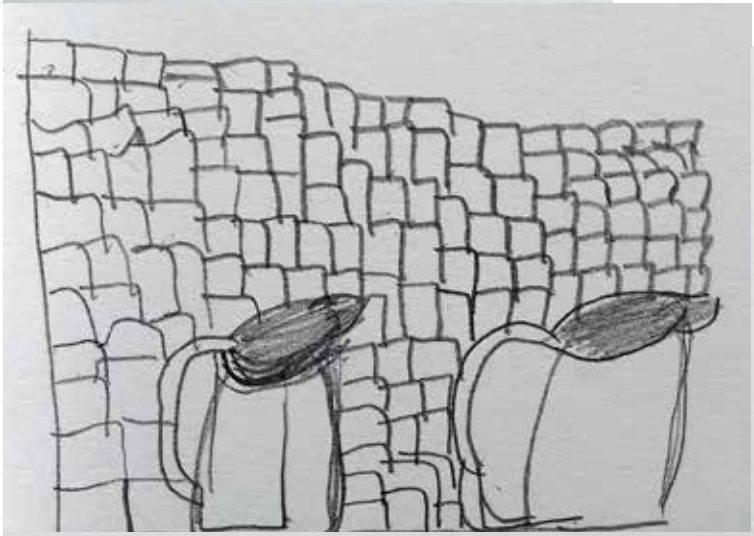
Here are some drawing made of objects in other churches

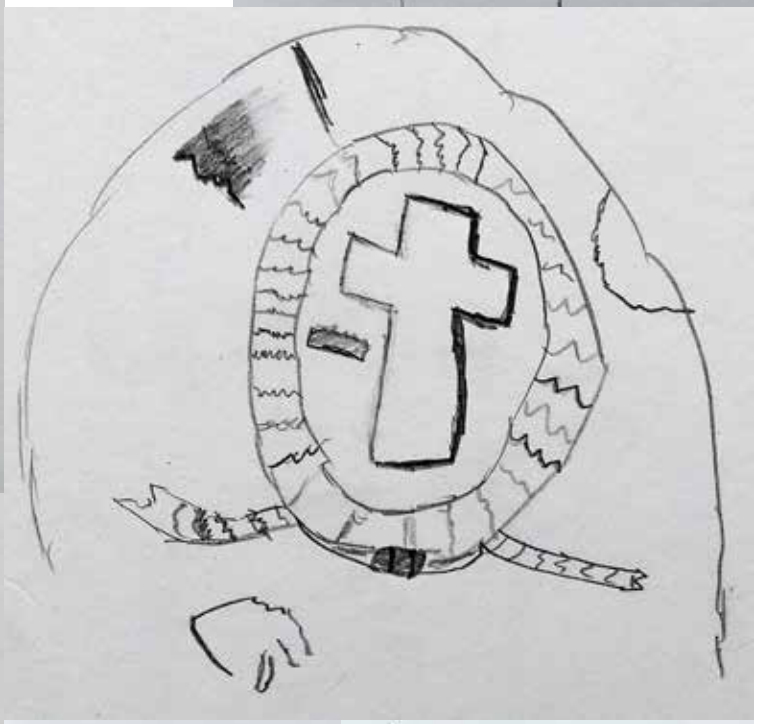
Observational drawing means you sit in front of an actual object and draw what you see.

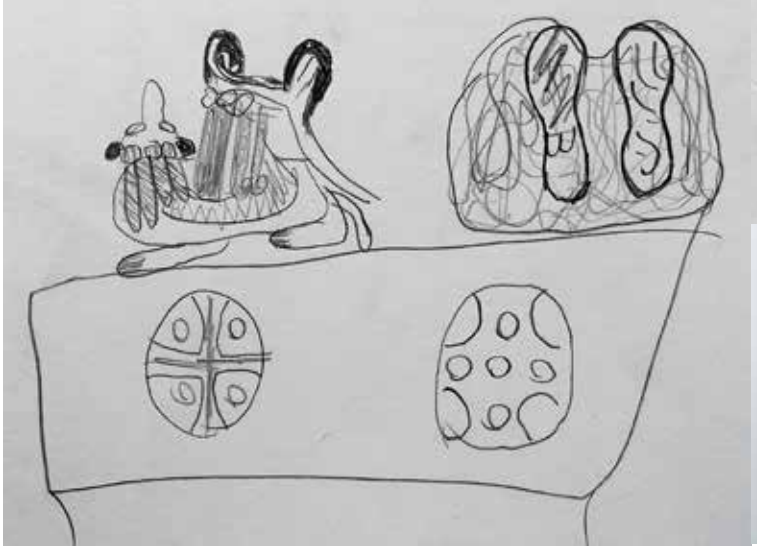
To understand what to draw you must look for a long time at the object. That way you will get to know what something actually looks like.

Use a pencil and don't worry about rubbing marks out.









St. Edith's Church
Monks Kirby

DESIGN A KNEELER

This is detail from one of the many prayer kneelers you can see in the church pews.

When people pray in church they may wish to kneel on the floor. The kneeler makes it easier to do that as it is just like a cushion.

Design your own kneeler by putting different colours in the squares below to make a picture or a pattern.

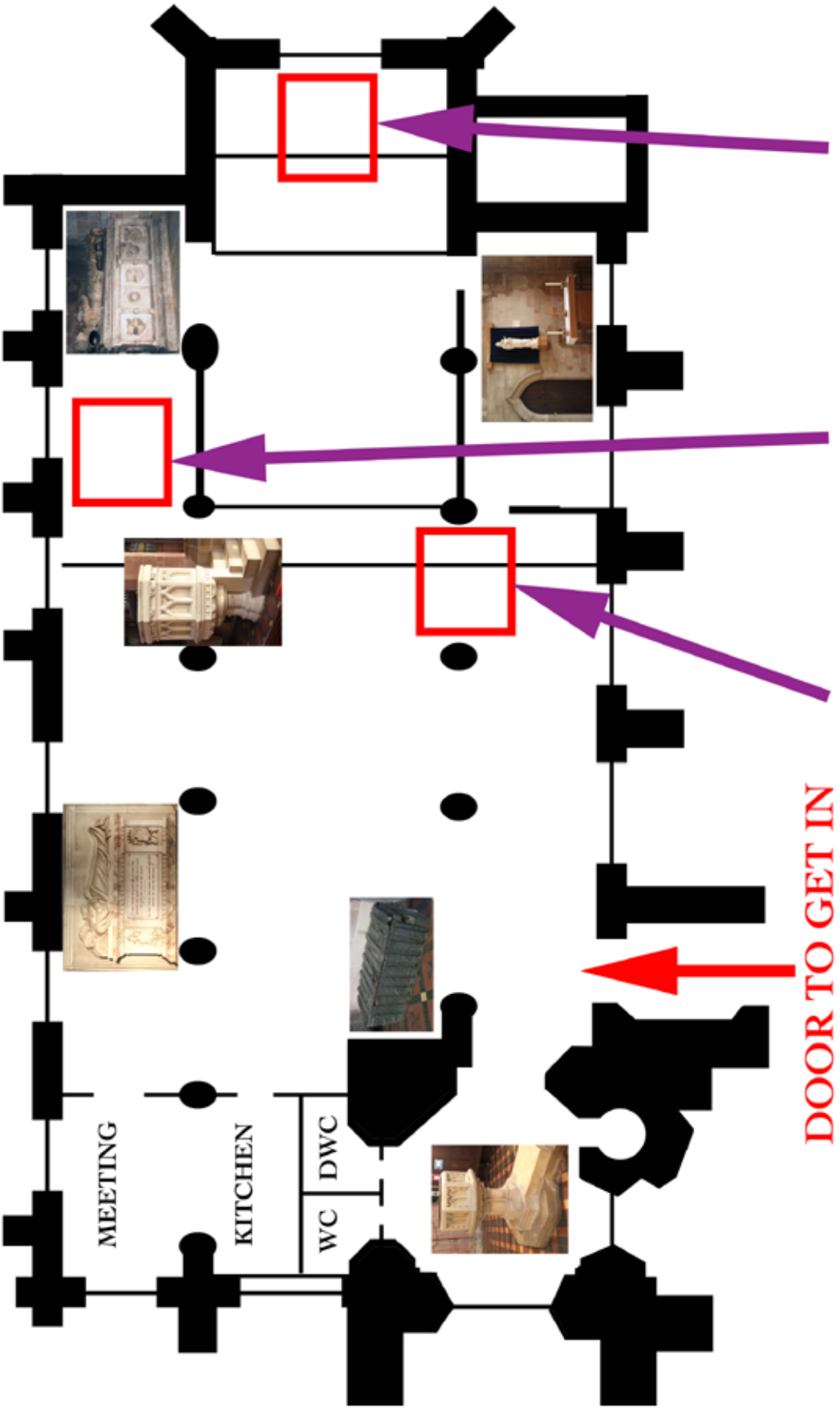
Most kneeler designs have a religious theme. You can do this or make your own design.

Here are some more examples

St. Edith's Church
Monks Kirby

ORIENTATION

Several of the activities use a plan or map of the church. You will be asked to write or draw on the plan so it is important that you know which way to hold the map. This is called 'SETTING' the map.
Look at the plan below, walk round the church to find the objects in the pictures, this should give you some idea of where things are. Fill in what you see in the red boxes.



St. Edith's Church
Monks Kirby

MATERIALS

St Ediths is made of lots of different materials. This task asks you to look round the church and record all the materials you can see.

What To Do

1. Walk around the church taking care to look carefully in as many places as possible.
2. Look high, low and everywhere else in between.
3. Use the data sheet to record what you see and what you think it is made of.
4. Mark your finds on the map using its allocated number.

Materials

Stone:
Sandstone
Granite
Marble
Clay
Brick (man-made)

Metals:
Iron
Steel
Brass
Gold
Silver
Lead

Glass
Wood
Plastic
Wax

There may be others.

Church Materials Data Sheet

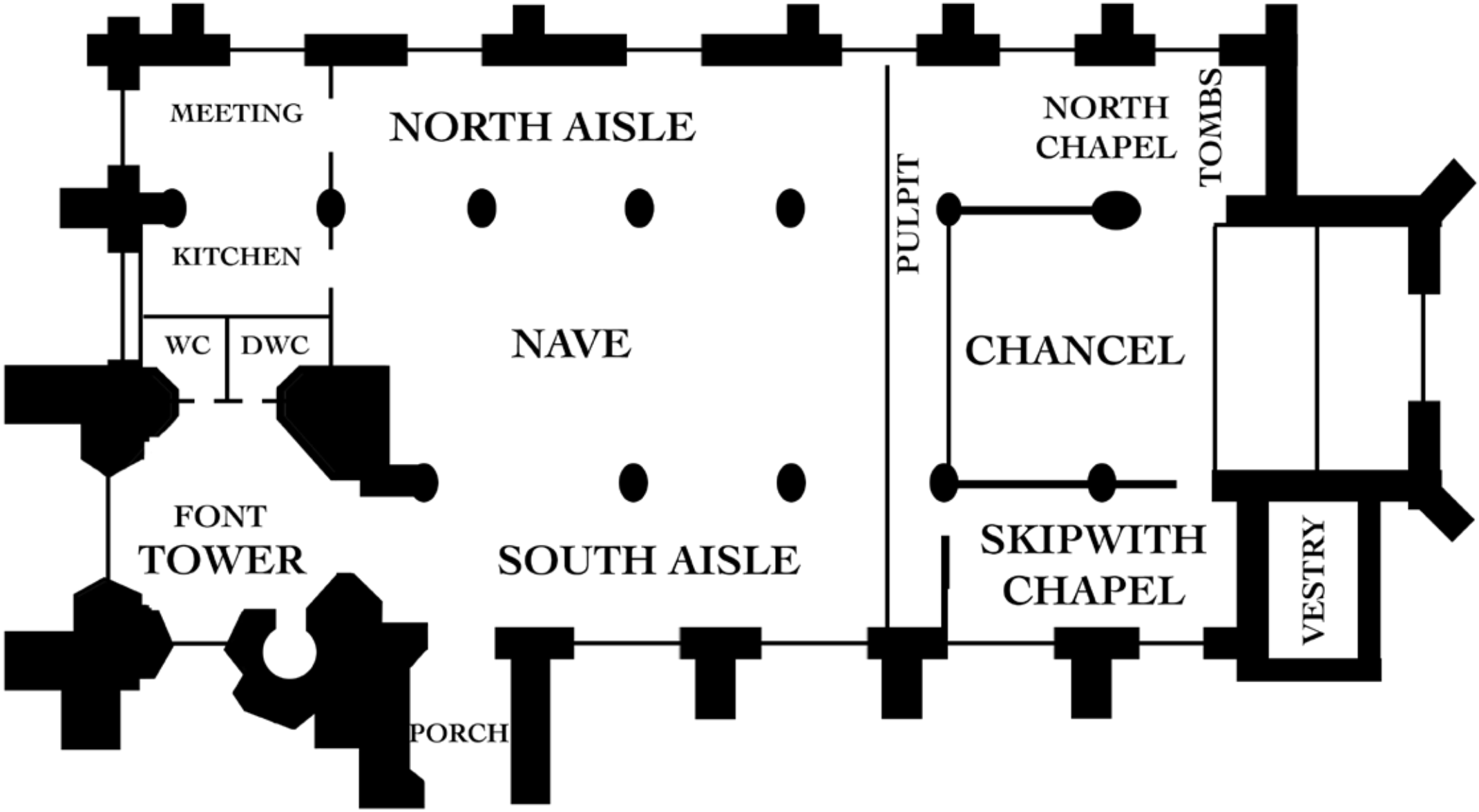
NAME_____

Number	Item	Used for	Material(s)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Stone:
Sandstone
Granite
Marble
Clay
Brick (man-made)

Metals:
Iron
Steel
Brass
Gold
Silver
Lead

Glass
Wood
Plastic
Wax

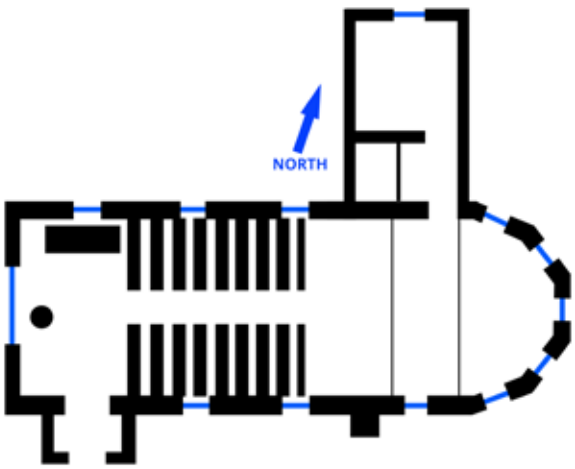

MEETING
NORTH AISLE
NORTH CHAPEL
TOMBS
PULPIT
KITCHEN
WC
DWC
NAVE
CHANCEL
FONT
TOWER
SOUTH AISLE
SKIPWITH CHAPEL
VESTRY
PORCH

NAME_____

St. Edith's Church
Monks Kirby

Build A New Church

The 15th century reality challenge.
Build a church from new
Decide what you want it to be
Think like a church builder from the 1400s



Your Task

The year is 1468

You are in charge of the money for building a village church.
You have been asked to make plans for the layout of the church and the fixtures and fittings

All churches have these features...
A nave
A chancel

Most church have these features...
A porch
A vestry
Aisles
A tower
Bells
A clock

Some churches have these features...
Transepts
A spire
A chantry

Inside the church you can choose what to have.
The list recommends the items you should have

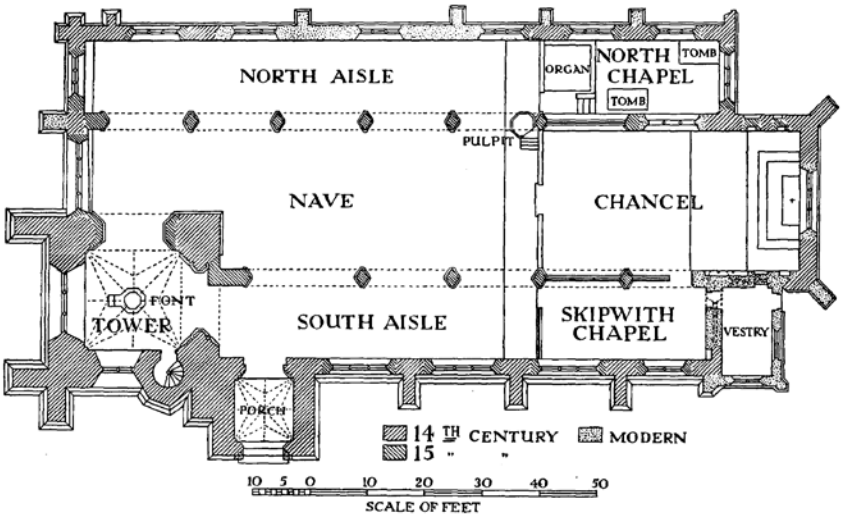
Use the information sheet to help you.
Use the planning sheets to work things out.
Show all of your calculations.
Try different combinations of things before to decide on a final plan.
Make sure you include the things you HAVE to have.
Draw your final plans on the final plan sheet.
Do not use a calculator, they weren't around 500 years ago!

Designing Your Church

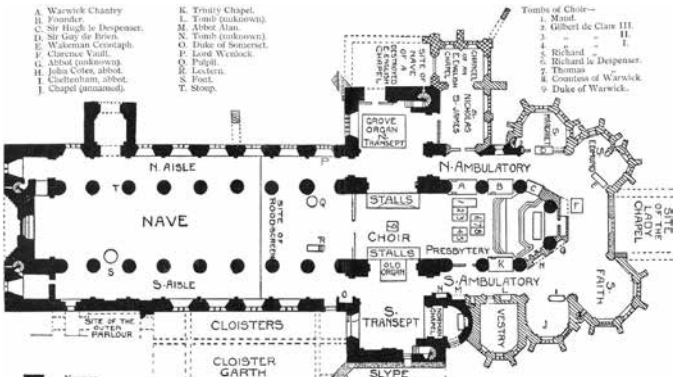
There are lots of churches and most of them are designed win a similar way.
There are some things you must do...

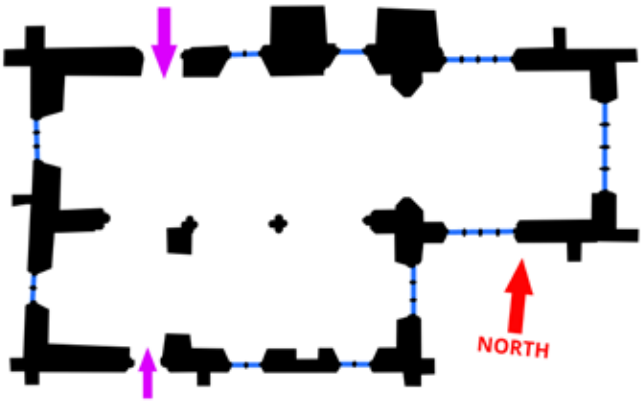
1. The church must lie facing east to west.
2. The CHANCEL will be at the east end.
3. The TOWER will be at the west end.

This is what St. Edith's looks like.

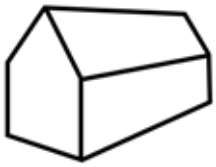
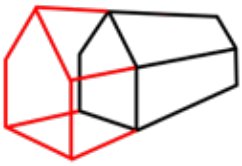
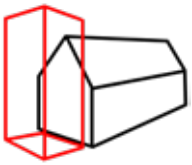
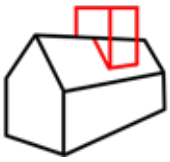
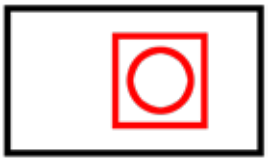
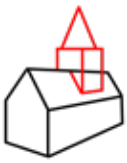
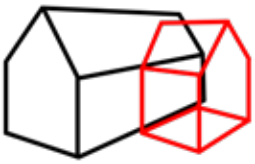
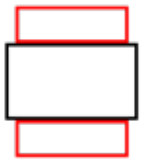
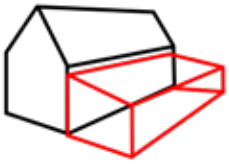
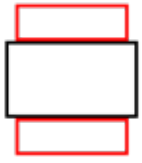
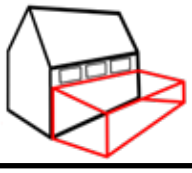
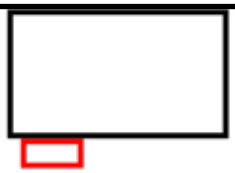
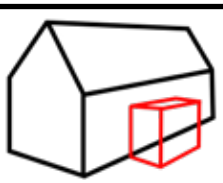
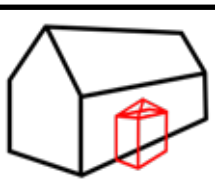


Here are some other church plans





Structural Building Information Sheet

	Rebuild north and south walls, and replace the roof. THIS REPAIR MUST BE DONE. Cost £150
	Extend **NAVE** to hold an extra 150 people. Cost £150
	Build **TOWER** at the end of the church. Needed for bells and to make the church look much more grand. Cost £150
	Build the **TOWER** in centre of church. You will only need to have one type of tower. Cost £150
 	Add a **SPIRE** to either tower. Will make the church the best in the county. Cost £250
	Add two **TRANSEPTS** to hold 150 people. This will give the church a cross shape. Transepts can also be added to aisles. Cost £250
 	**AISLES** can be added to either side. They hold 100 people each but make the nave darker. Cost £200 per aisle.
 	Raise nave walls to make inside brighter. Cost £300 for one aisle. £400 for two aisles
 	Build a **PORCH** to store parish records and protect the main door from the weather. Cost £100
	**CHANTRY**. A small private chapel which can be added anywhere. You must build one of these for the rich land owner. Cost £65

Interior Fittings Information Sheet 1

BELLS
Install bells to ring out the glory of the church.
Churches can have from 4 to 10 bells.
Cost £50 each

FONT
A font is needed to carry out baptisms.
They range from simple to highly carved and decorative.

Cost- Simple=£50 Highly decorated=£85

LECTERN
A lectern is where members of the public stand when they are giving readings from the Bible to the congregation. It can be wood or brass.
Cost - Wood=£35 Brass=£95

PARISH CHEST
A parish chest is where you will keep all your important documents. It has three locks with three different keys for extra security.
Cost £150

PULPIT
The pulpit is where the clergy stand to talk to their congregation. It can be simple or or beautifully carved marble.

Cost - Wooden=£55 Marble=£110

REREDOS
A reredos is an ornamental screen behind the altar.

It could be painted or carved.

Cost - Painted=£40 Carved=£55

ROOD SCREEN
A rood screen or chancel screen separates the chance from the nave.

Cost - Simple=£105 Highly decorated=£135

SUNDIAL
Villagers do not know what the time is so a sundial on the side of the church will let them know what it is.

£65

STAINED GLASS WINDOWS
Stained glass windows are beautiful pictures which help the community (most of whom can't read) to understand Bible stories
Cost - Single window=£100 Double=£175 Triple=£265

Interior Fittings Information Sheet 2

CLOCK
Fit a clock to the tower so that the villagers can see the time and hear the hours, quarters and half hours being rung
Cost £200 for one clock face. £300 for two.

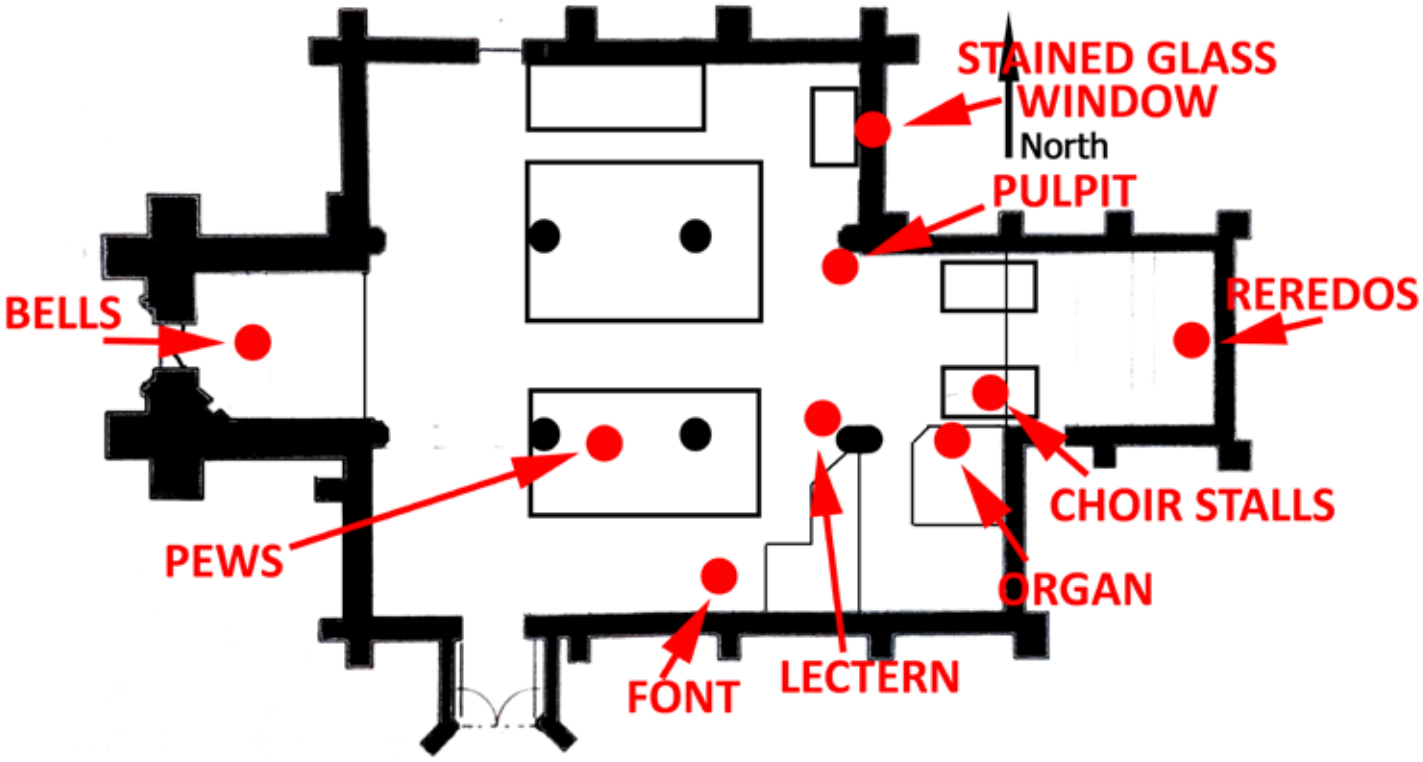
ORGAN
Install an organ to play when hymns are being sung, for weddings and funerals.
Cost £400

PEWS
Pews are for people to sit. They vary in size and cost depending on where they are placed.
Nave pews - £30 each Aisle pews - £20 each

CHOIR STALL
If you have a choir they will need their own place to sit. This will usually be near the altar.
Cost: Stall for 6 people = £40

CRUCIFIX
The crucifix is a very Holy symbol and all churches will have at least one.
Cost: Wooden=£20 Brass=£35 Gold=£100

This is where the interior fittings are in a typical church



Church Design

Cost of Building Church Structure

	ITEM	COST
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
	COST OF BUILDING CHURCH	

Cost of Interior Fittings

	ITEM	COST
1		
2		
3		
4		
5		
6		
7		
8		
9		
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11		
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21		
22		
23		
24		
	COST OF BUYING FITTINGS	
	TOTAL COST OF CHURCH	

St. Edith's Church
Monks Kirby

PARTS OF A CHURCH

Match the photographs to the descriptions

Stained Glass Window

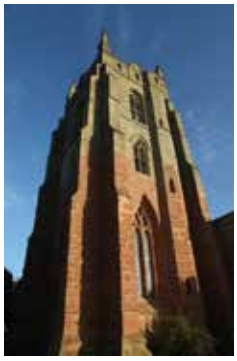
Pews

Font

Arches

Pulpit

Eagle Lectern



Altar

Organ

Choir Stalls

Tower

Monument

PARTS OF A CHURCH

Stained Glass Window

Pews

Font

Arches

Pulpit

Eagle Lectern

Altar

Organ

Choir Stalls

Tower

Monument

PARTS OF A CHURCH

Stained Glass Windows

Altar

Font

Pews

Pulpit

Tower

Eagle Lectern

Choir Stalls

Organ

Arches

Monuments

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PHOTO ID TASK

- Look at the photographs below. They were all taken inside the church.
- Each one is numbered.
- Walk around the church and try to find where they photographs were taken.
- Record on the church plan where you think each one is. Use its unique number.
- Write what you think each one is.

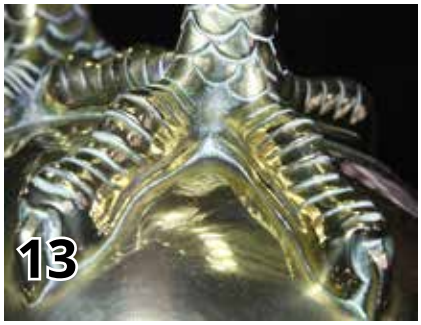
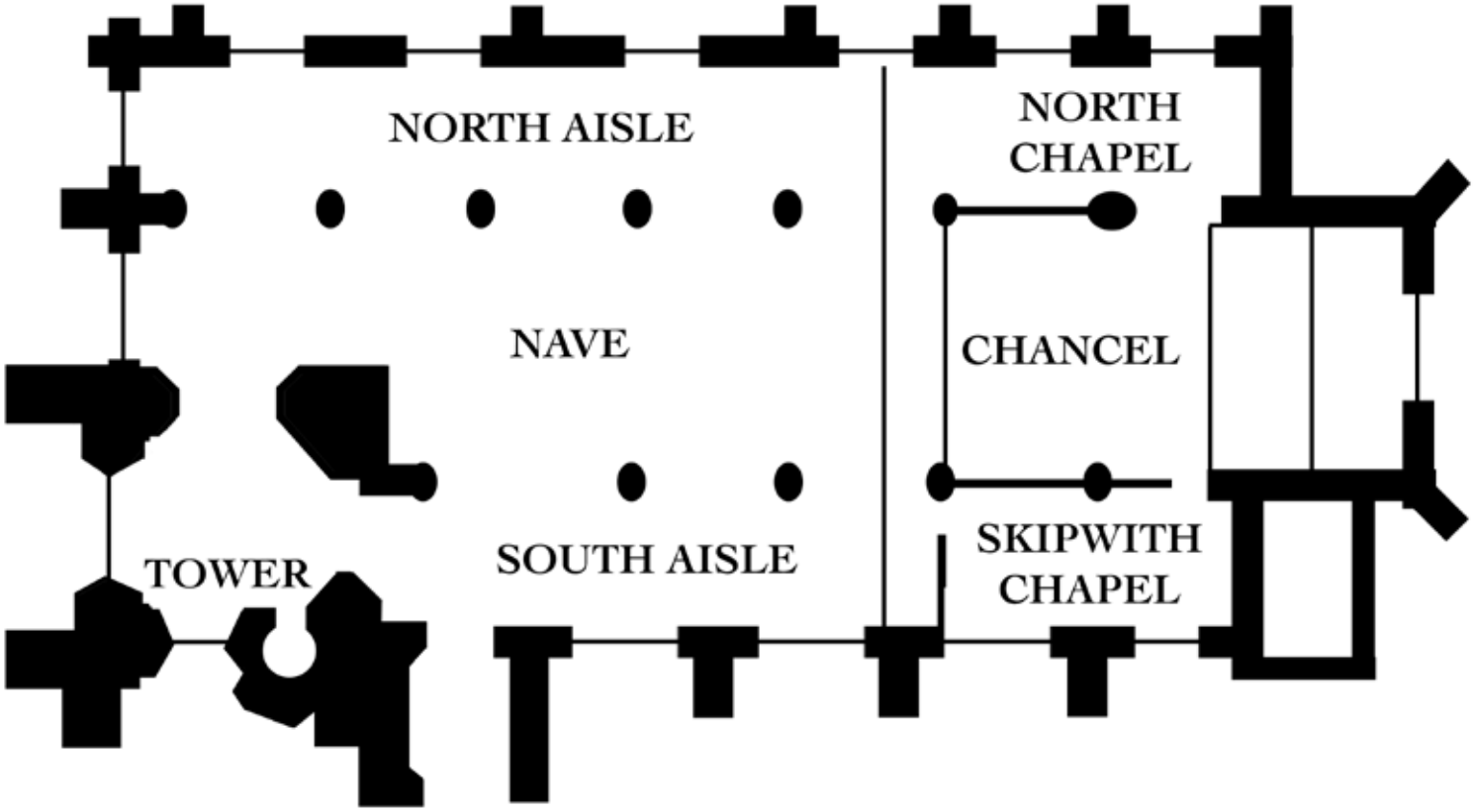


Photo ID Record Sheet



1. _____
2. _____
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14. _____
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17. _____
18. _____
19. _____
20. _____

Photo ID Answer Sheet

St. Edith's Church
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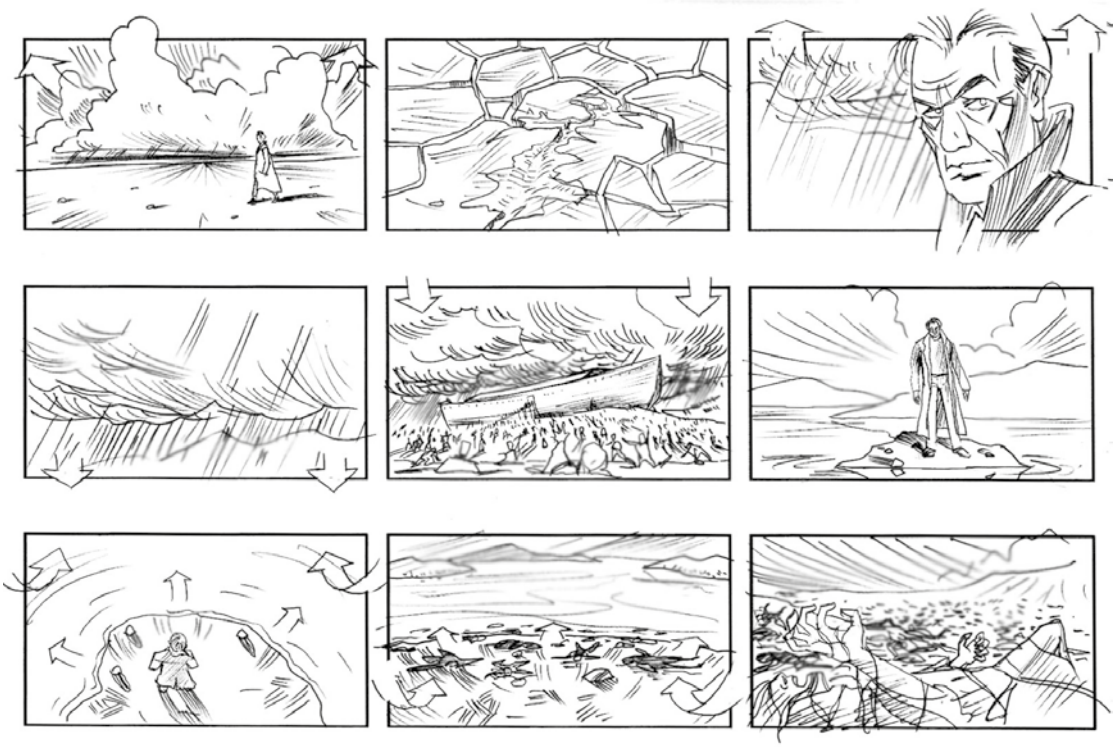
STAINED GLASS STORYBOARDS

All films have storyboards drawn before the film is made. They help the filmmaking team to see what the film will look like and assists in developing the story. This is part of a storyboard for the Bible story 'Noah's Ark'.



Stained glass windows, as well as looking beautiful, tell stories. They were made so that people who could not read could understand the word of God. The picture to the right is a panel from the window above the altar in the church, it tells the story of the last supper before Jesus was crucified.

Your task is to make a four panel storyboard based upon the story of The Good Samaritan. Make it look like a stained glass window if you wish.

You may add a sentence or two to the bottom of each panel to help explain the story.

The Story of the Good Samaritan

1. There once was a Jewish man walking from Jerusalem to Jericho. The road was rocky and there were small hills all around. The man was just humming to himself and enjoying the nice day when suddenly a group of men jumped out from behind a hill. They took all his belongings and tore off most of his clothes. They didn't want him to follow them so they beat him up very badly, and left him lying and bleeding on the side of the road.

2. A few minutes later, a priest was walking down the same path and noticed the man lying on the side of the road. Instead of helping he crossed the road and walked on the other side and acted like he didn't see the man.

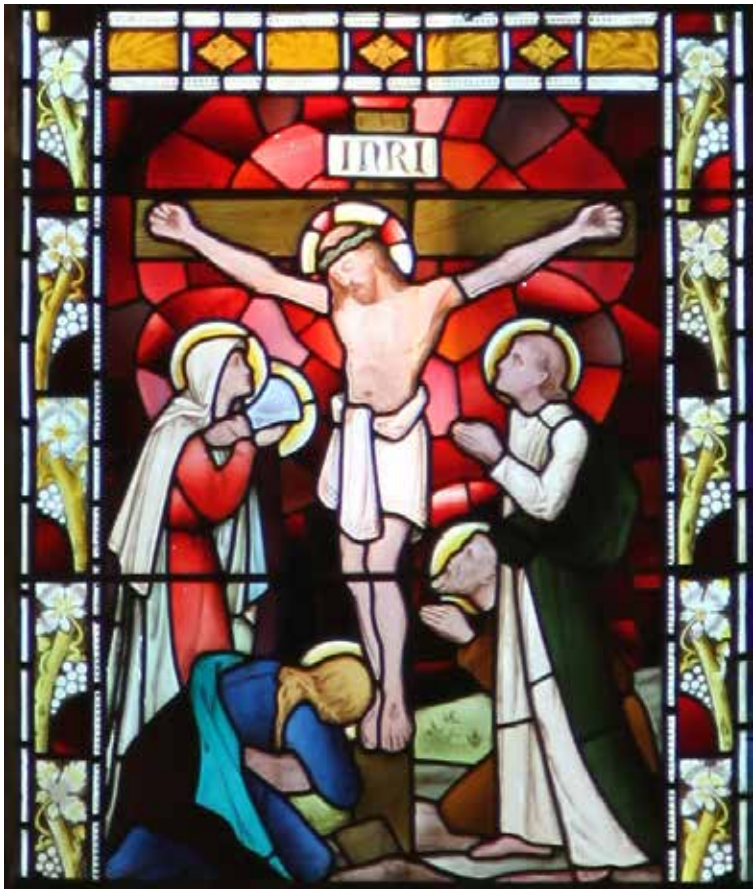
3. About an hour or so later, another man, called a Levite, was walking down the road. Levites were people who assisted priests with their work. He slowed down and walked a little closer to the man, but then kept walking without helping him at all.

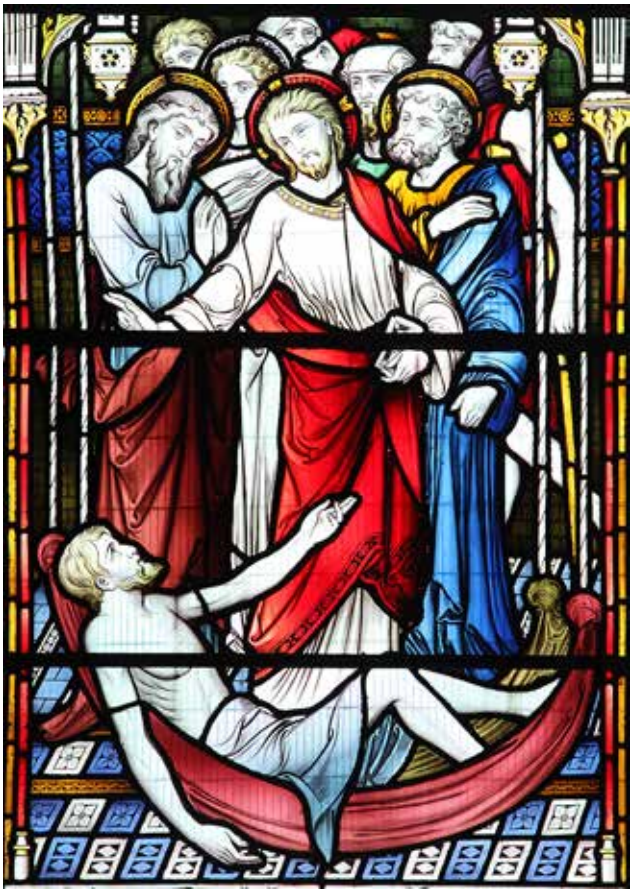
4. Just a few minutes later, another man came walking. He was a Samaritan. One thing you should know about Samaritans is that Jews didn't like them. Jews usually didn't treat Samaritans very well, so they never got along. The man who was dying on the road was a Jew. As soon as he saw the man, he went over to him and felt compassion for him. He put bandages on his sores and poured oil and wine on the sores to prevent them from getting worse. Then he lifted the man on his own donkey and took him to a hotel to take care of him.

STAINED GLASS WINDOW COLOURING SHEETS

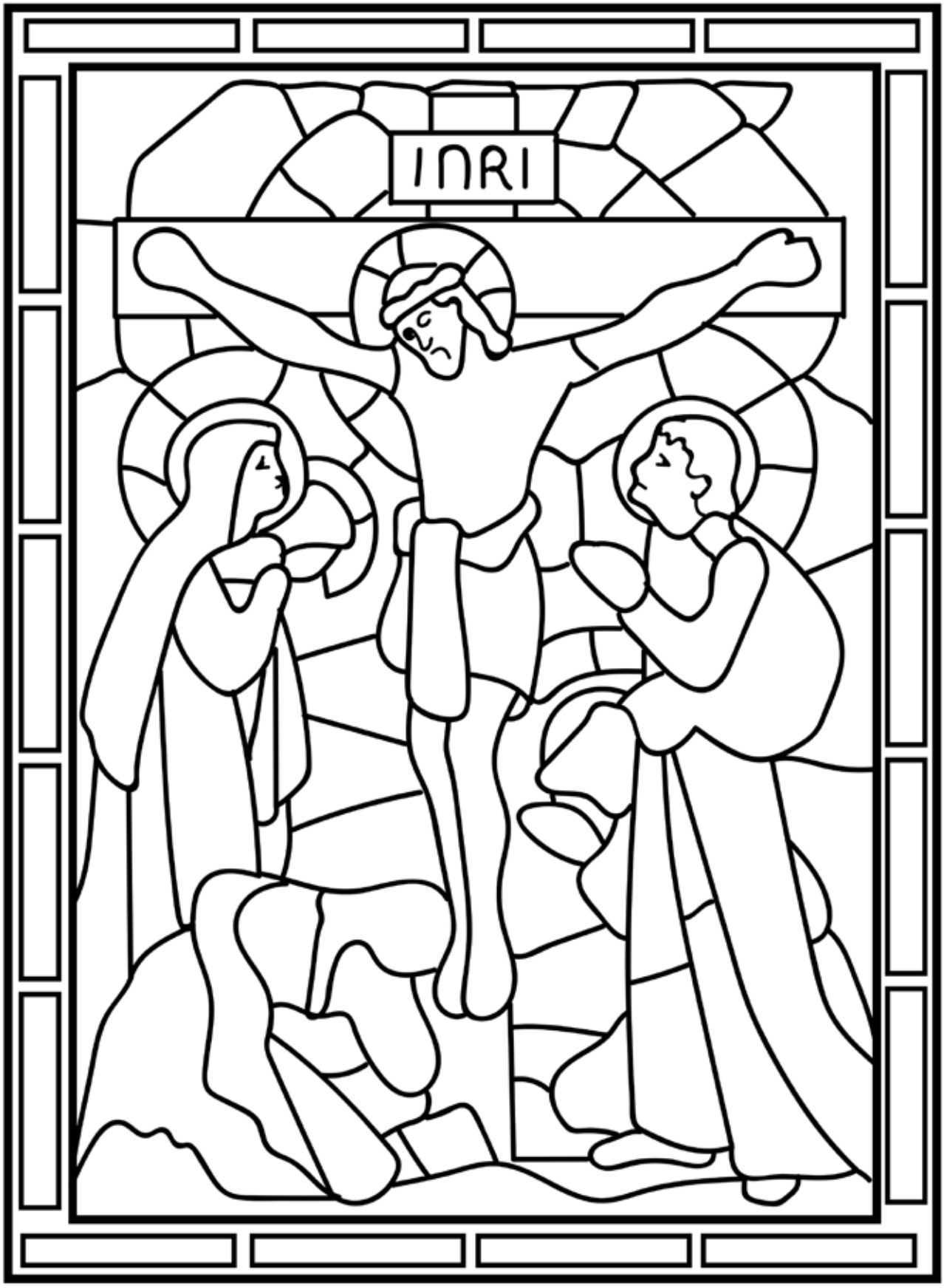
The following sheets have been created using images from the windows in St Ediths.

Below are the windows used which may be used to match colours if required.





Find the window then colour this in.



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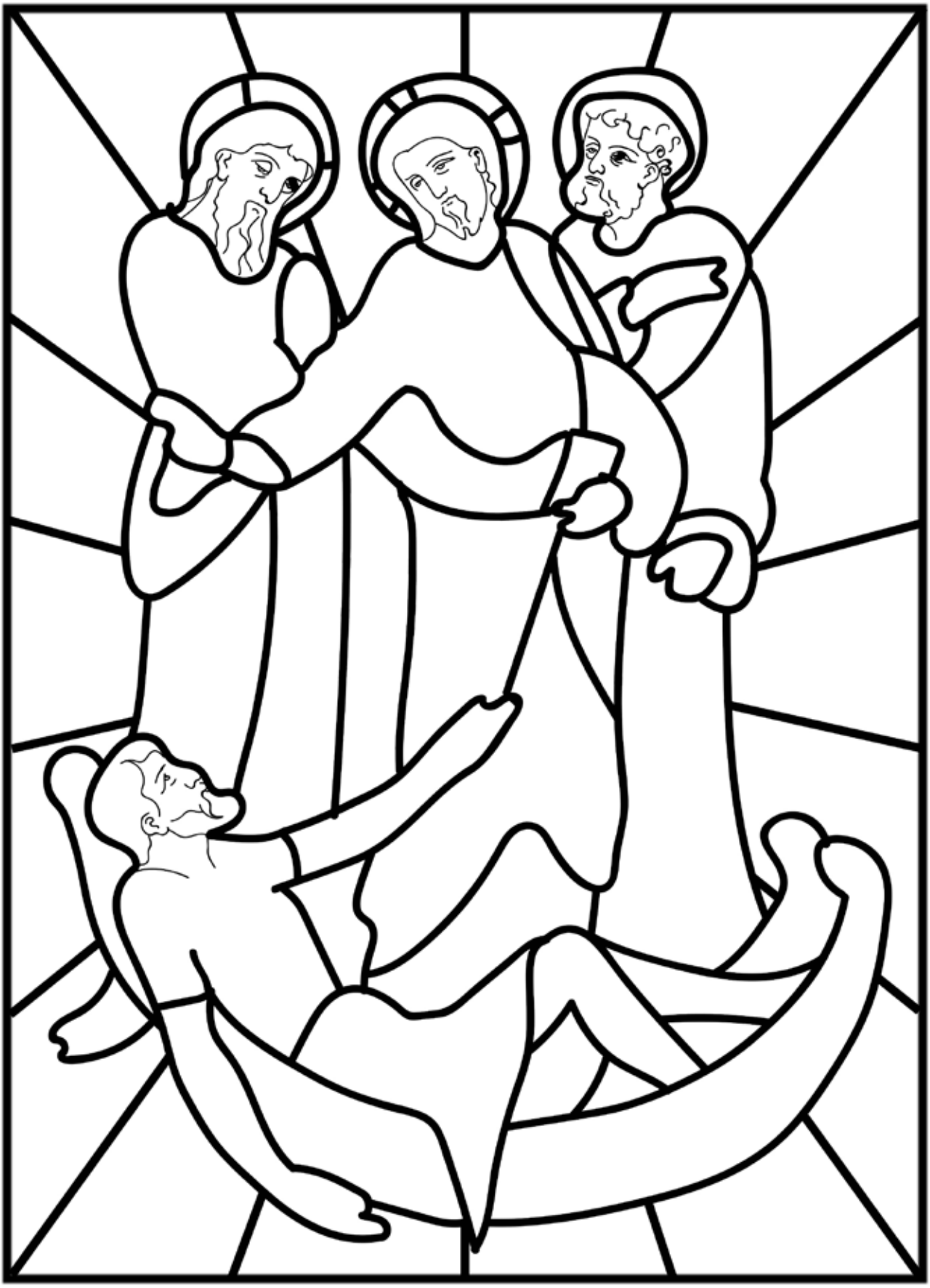

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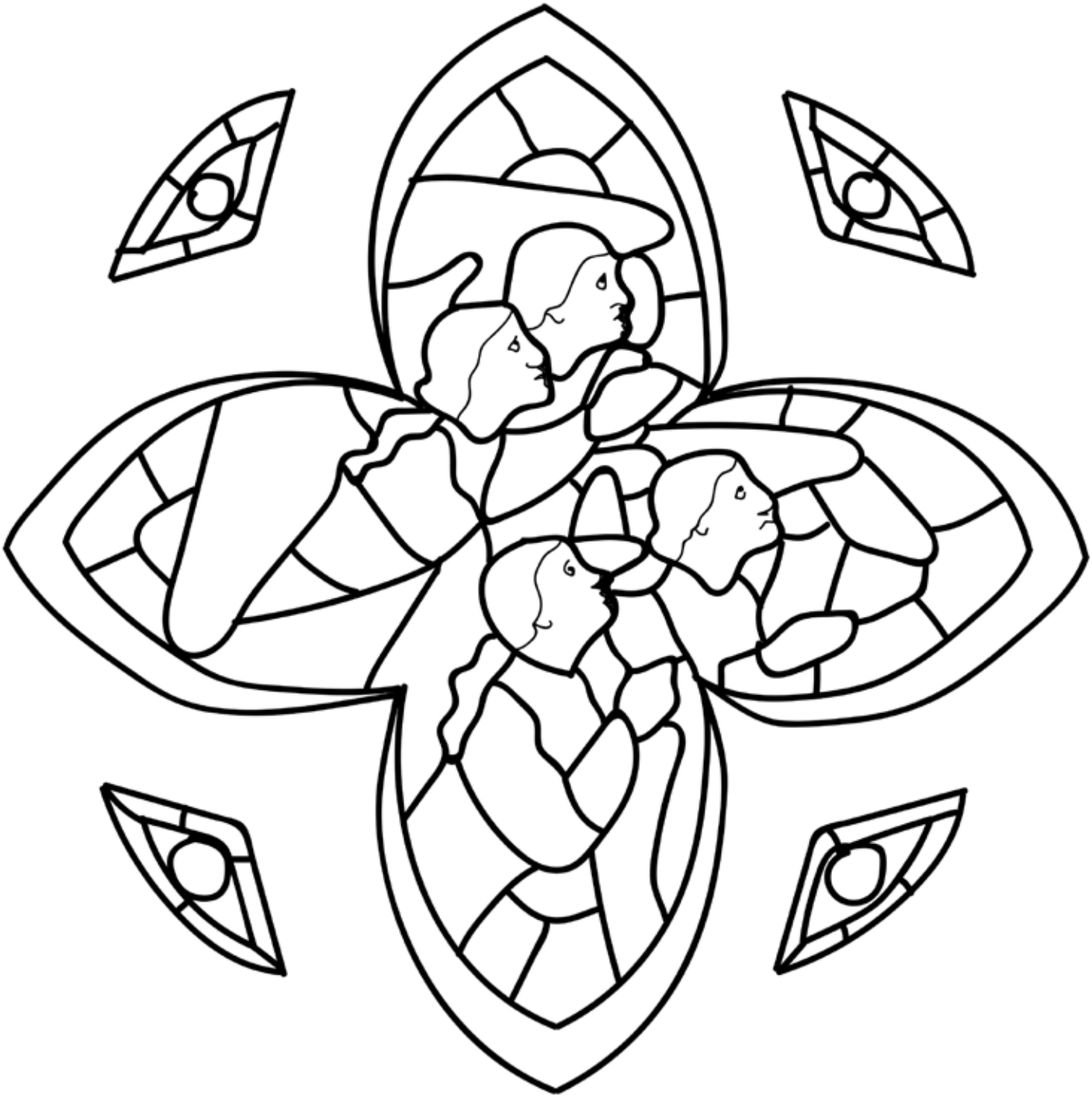

St. Edith's Church
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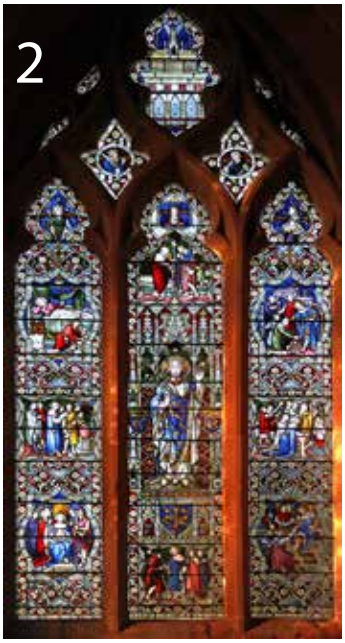
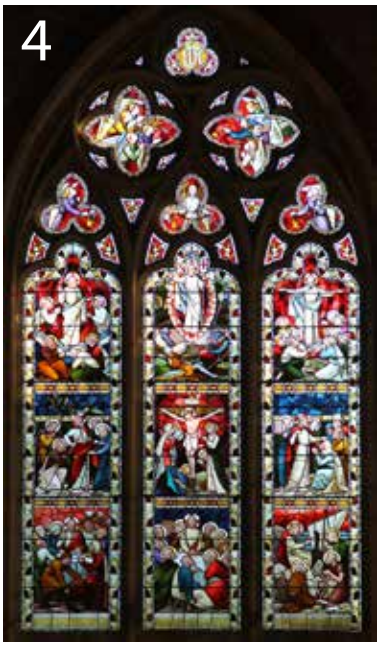
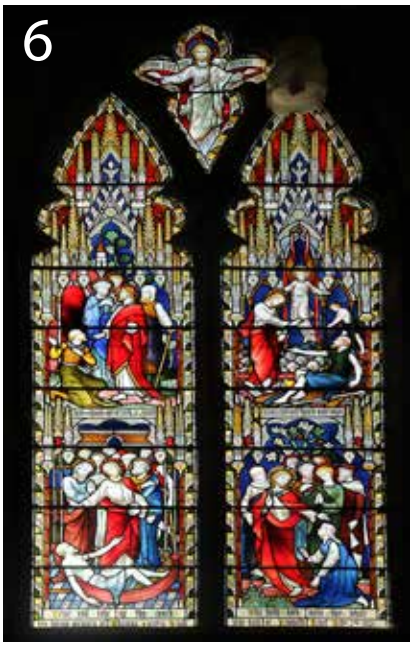
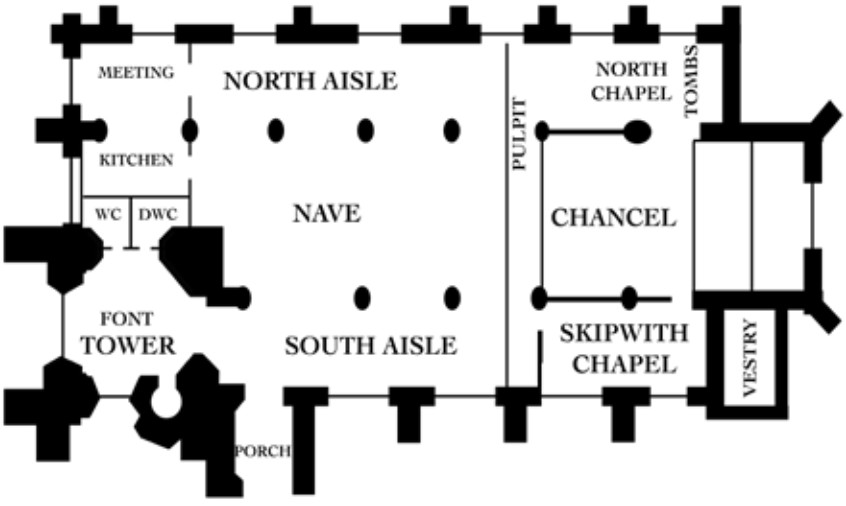
STAINED GLASS MATCH

Look at the images of the stained glass windows - Find them in the church - Plot them on the plan.









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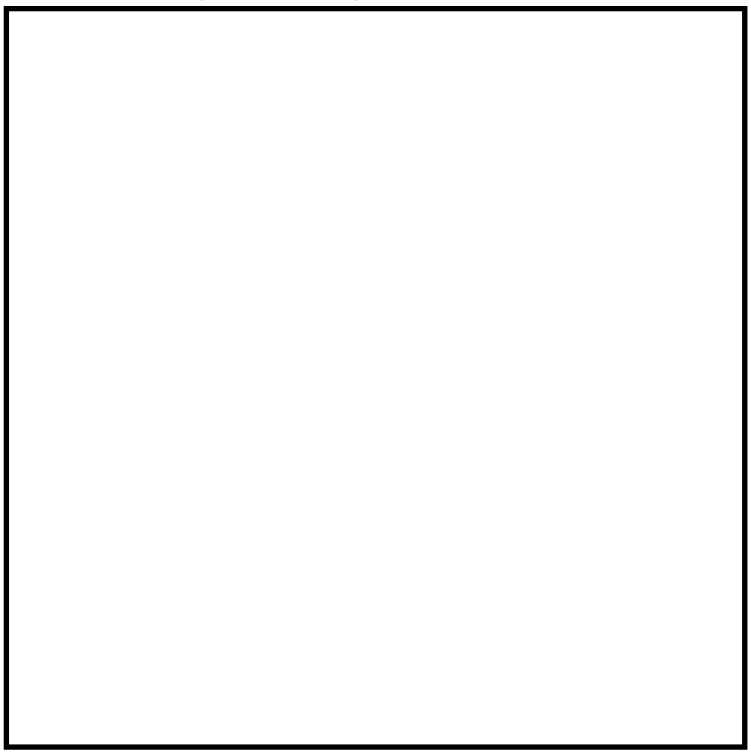
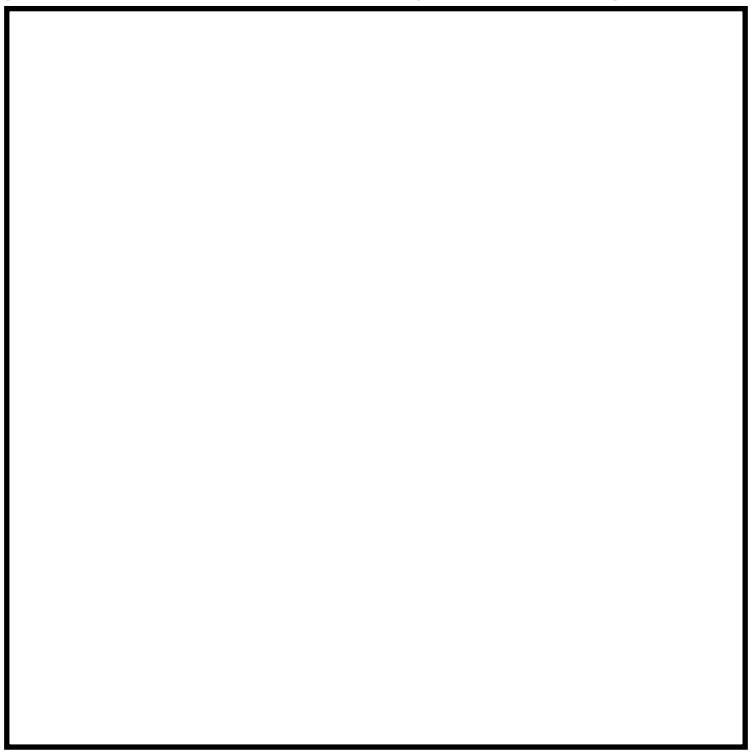
TILE DESIGN

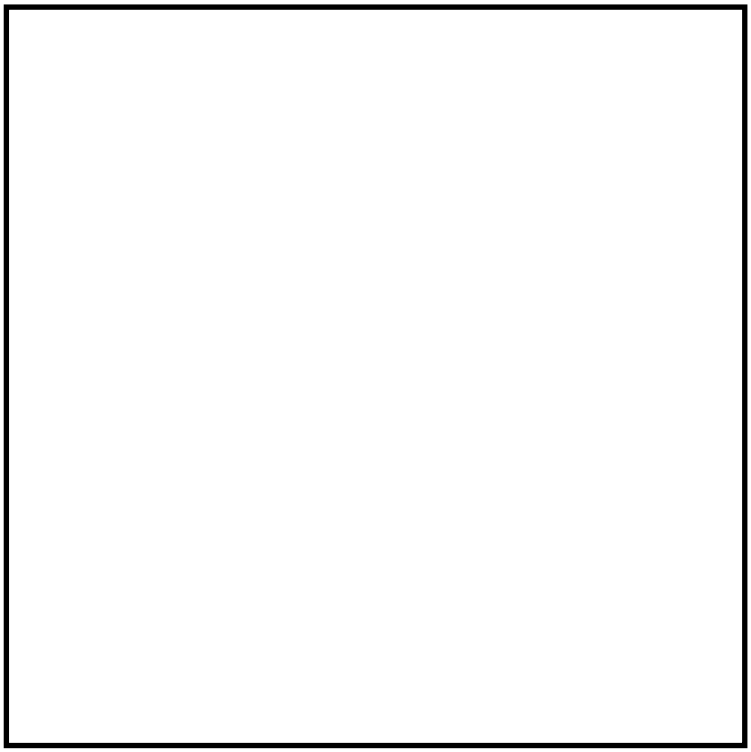
Building work started on St Edith's Church in the 1200s although there was probably worship taking place on the site from the 800s.
Since that time the church has undergone a lot of additional work, much of it carried out by the Victorians in the 1800s. This includes the laying of the beautiful floor and wall tiles. Here are some of the tiles in the church.

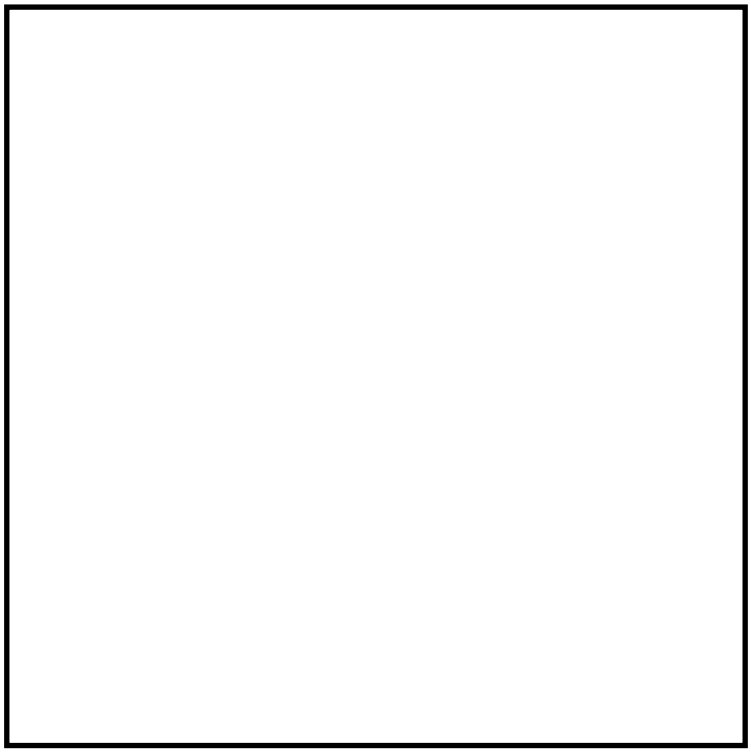
Tile Design Sheet

- Design your own set of tiles using the templates below.
- Try out lots of different designs.
- Look on the internet for other Victorian tile designs, you may even have some in your home.
- Consider making edge tiles and tiles of different sizes.
- Look at how the tile patterns fit together, they could also tessellate (check that word!)
- Transfer your designs to the blank tiles and glaze them with several layers of PVA glue.









St. Edith's Church
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WHAT HAPPENS IN CHURCH?

Below are pictures of some of the things that can take place in church.
Can you identify them?
Can you think of any other things that take place in churches?

Music Concert

Christening

Church Service

Funeral

Wedding

Communion

Children's Activities

Nativity Plays

Choir concerts

Bell ringing

Organ recital

Answers

Music Concert

Christening

Church Service

Funeral

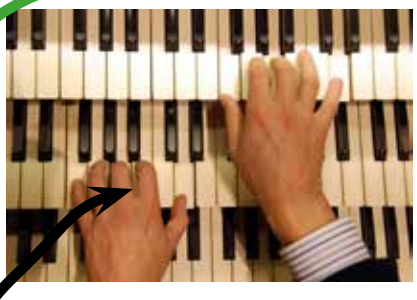
Wedding

Communion

Children's Activities

Nativity Plays

Choir concerts

Bell ringing

Organ recital