Create your own maths board game

How many board games can you name?
Have you played any board games recently?
How do board games work?
What equipment or pieces do you need to play them?

This week for your maths work you are going to create your own maths board game that shows your skills in one of the maths topics we have covered this year.

Maths topic: Choose one of the topics below which your game will review.

<table>
<thead>
<tr>
<th>Addition</th>
<th>Money</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtraction</td>
<td>Perimeter</td>
</tr>
<tr>
<td>Multiplication</td>
<td>Shape</td>
</tr>
<tr>
<td>Number and place value</td>
<td>Measure (cm / kg / ml etc)</td>
</tr>
<tr>
<td>Counting in multiples</td>
<td>Fractions</td>
</tr>
<tr>
<td>Time</td>
<td>Statistics (graphs / tables)</td>
</tr>
</tbody>
</table>

Choose a theme for your board game. You might want to base it on some of the topics we have covered (see below) or you can think of your own theme:

<table>
<thead>
<tr>
<th>Electricity</th>
<th>The Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vikings</td>
<td>Tudors</td>
</tr>
<tr>
<td>Anglo-Saxons</td>
<td>Teeth</td>
</tr>
<tr>
<td>Living Things</td>
<td>Around the world</td>
</tr>
</tbody>
</table>

Alternatively, you want to choose a theme for your board game based on something you enjoy outside school:

e.g. Sport, animals, space, Pokemon, etc
Day 1

Choose a topic and a theme.

My topic is _____________________________________________
My theme is ____________________________________________

Make a rough plan of your game. You will need to include: -

The number of players ____________

Goal of the game _____________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

How a player wins
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

Game pieces
What are you going to use as game pieces/counters. You might decide to use pennies, rocks, tokens or you might make something to go with your theme. You must have at least 4 game pieces.
__________________________________________________________
__________________________________________________________
__________________________________________________________
Game cards
There must be at least 20 game cards with problems about the topic you have chosen. You will need a separate piece of paper with the answers to the cards written on. You might want to number the cards so they can be easily matched up with the answer sheet.

What are your game cards going to have written on them?
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

When will players get a game card?
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

What will happen to the player if they get the answer on the card right?
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

What will happen to the player if they get the answer to the card wrong?
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

Moving around the board
How are players going to move around the board when it is their turn? Will they have to throw a dice? Will there be a spinner? Are you going to make the dice or spinner or are you going to use one you already have?
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
Day 2

Designing the board.

Think about the board you are going to use for your game. What will the board look like?
__________________________________________________________________

How will it be decorated?
__________________________________________________________________

You may want to use one of the templates in this pack or you may want to make your own.

How will the board be set up at the start of the game?
__________________________________________________________________

Are there any short cuts?
__________________________________________________________________

Are there any dangers that send the player back towards the start?
__________________________________________________________________

Are there any miss a turn or have an extra go squares.
__________________________________________________________________

Now design and decorate your board so it fits in with the theme of your game. Remember to make it bright and colourful.
Day 3

Making the cards and writing the answer sheet.

Today you are going to make the cards for your game.

You might want to use the templates in this pack or you might want to make your own.

Remember to write carefully so that your questions are easy to read by your players.

Make a variety of questions some harder than others to give everyone a chance.

You also need a separate piece of paper with the answers to the cards written on. You might want to number the cards so they can be easily matched up with the answer sheet.
Day 4

Today you are going to make the game pieces, counters, dice and spinners

What are you going to use as game pieces / counters?
You must have at least 4 game pieces.
Remember to decorate them so they match the theme of your game.

How are players going to move around the board when it is their turn? Will they have to throw a dice? Will there be a spinner? Are you going to make the dice or spinner or are you going to use one you already have?

By the end of this session you should have all the elements you need to play your game.

The board
The game cards (at least 20)
The game pieces / counters (at least 4)
The dice / spinner
Day 5

Now you have the board, the counters, the dice / spinner and the cards for your game it is time to write the instructions about how to play.

Remember to include:

The number of players
The goal of the game
Step by step instructions
How a player wins

Finally, it is time to play your game. You might want to take pictures of you playing your game and ask other players what they thought of it.
I wonder who will win?