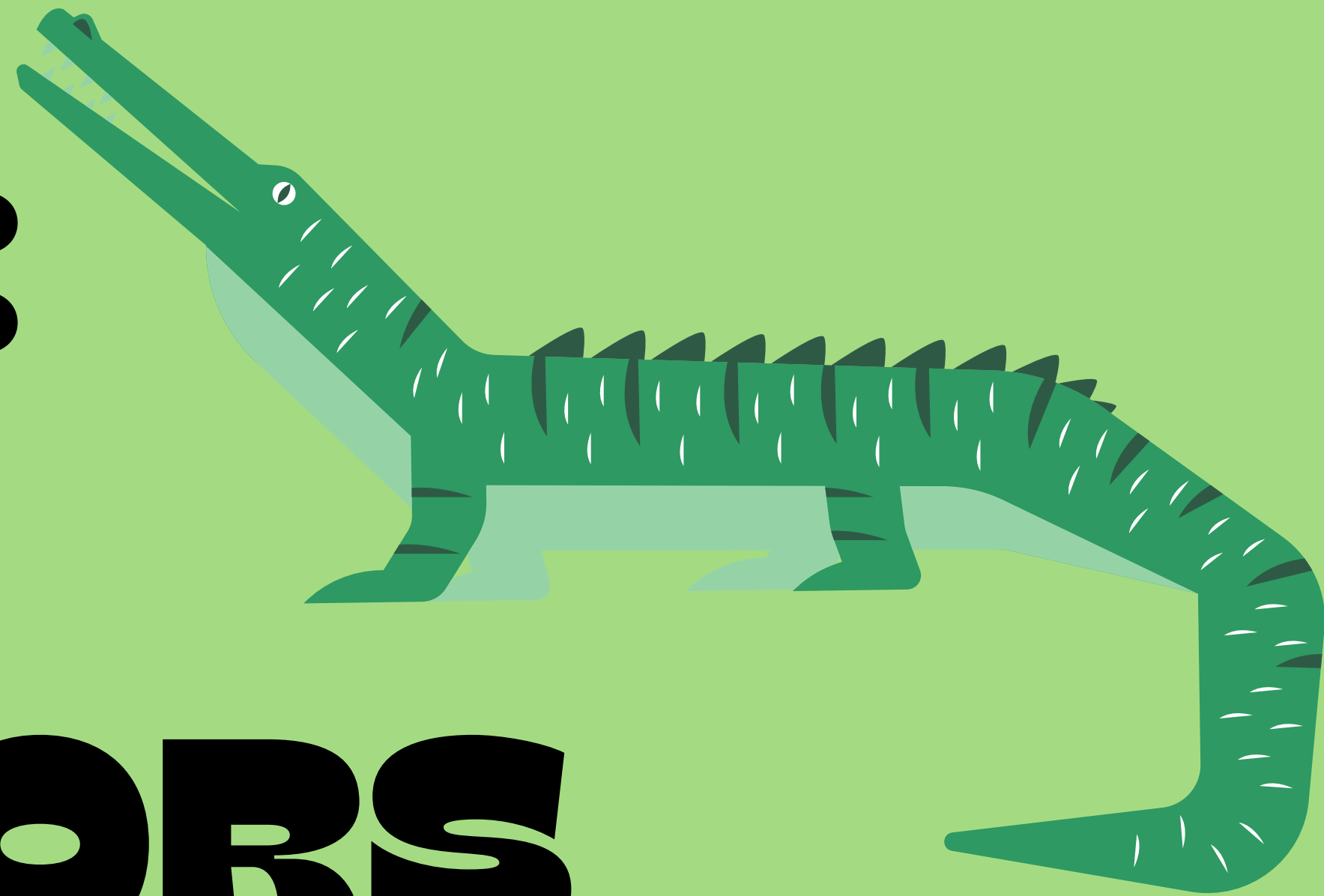


# PROJECT: BABY ALLIGATORS



Grade 4

Topic 6


Pick a Project

Name \_\_\_\_\_

Pick a Project  
Project 6C

### American Alligator


What animal has a mouthful of large teeth, is covered by a thick skin, and can grow more than 14 feet long and over 1,000 pounds? It's the American Alligator. Freshwater ponds, rivers, and marshes throughout the southeastern United States are home to millions of alligators. These fearless animals get around by swimming, but they can also walk, crawl, and run on land.



The number of alligators became very low in the 1950s. They had been hunted and their habitats were being destroyed. Alligators were in danger of disappearing forever. Several wildlife agencies worked together to protect alligators, and now they are no longer considered to be in danger.


### Your Project: Compare Numbers of Alligators

Alligators produce young in eggs. Temperature determines whether the newborn alligators will be males or females. The table describes 100 alligator babies born from eggs kept at different temperatures.



Temperature (C)	Number of Females	Number of Males
28	100	0
31	75	25
33	30	70
35	0	100

Make a bar diagram to compare the numbers of males and females at each temperature. Write a caption to explain how temperature affects alligator babies. Share your diagram with the class.

Pick a Project 

# PACING PLAN



## DAY 1

### BACKGROUND RESEARCH

NOTICE & WONDER

INTRODUCE TASK

## DAY 2

### GRAPHING

SET AXES  
DATA ENTRY  
LABELS & TITLE

(STEPS 1-7)

## DAY 3-4

### ANALYSIS & CONCLUSION

CREATE YOUR  
PRESENTATION  
(STEP 8)

WRITE PARAGRAPH

PRESENT

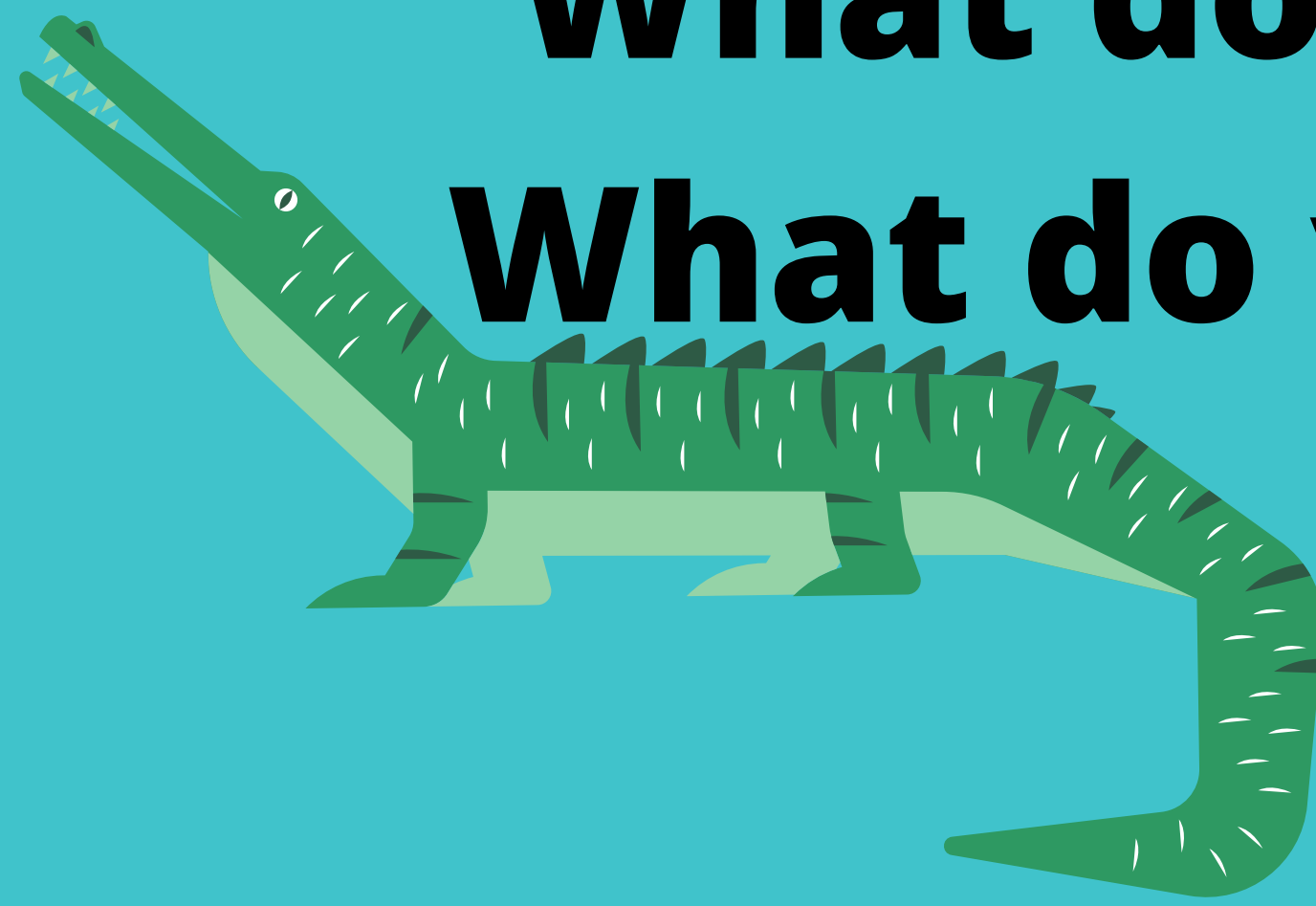


**DID YOU  
KNOW?**

Alligators produce young in eggs. **Temperature** determines whether the newborn alligators will be **males** or **females**.

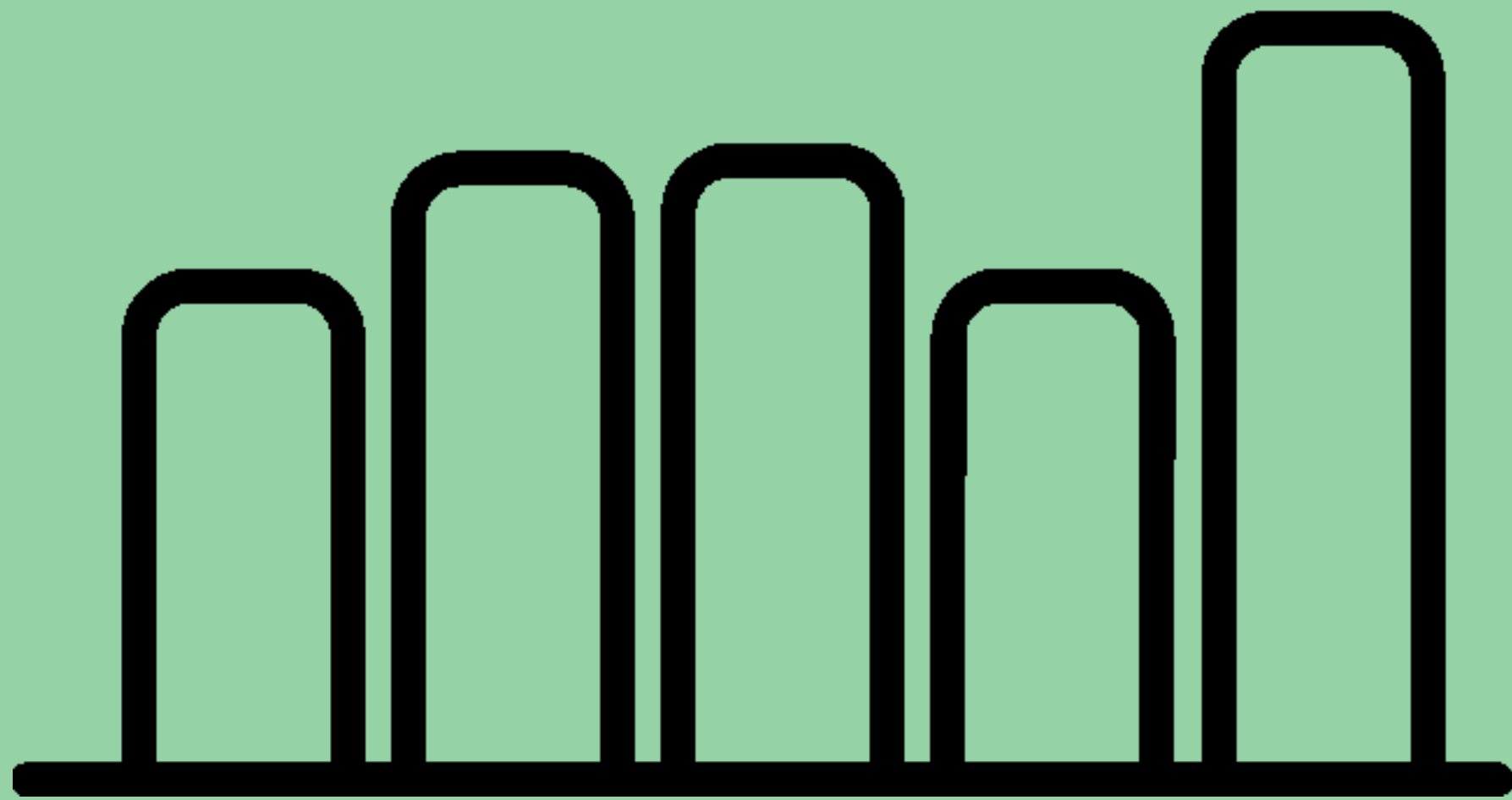
Temperature (C)	Number of Females	Number of Males
28	100	0
31	75	25
33	30	70
35	0	100

The table describes 100 alligator babies born from eggs kept at different temperatures.



**What do you notice?**  
**What do you wonder?**

# YOUR TASK



Make a bar diagram to compare the numbers of males and females at each temperature.

Write a caption to explain how temperature affects alligator babies.

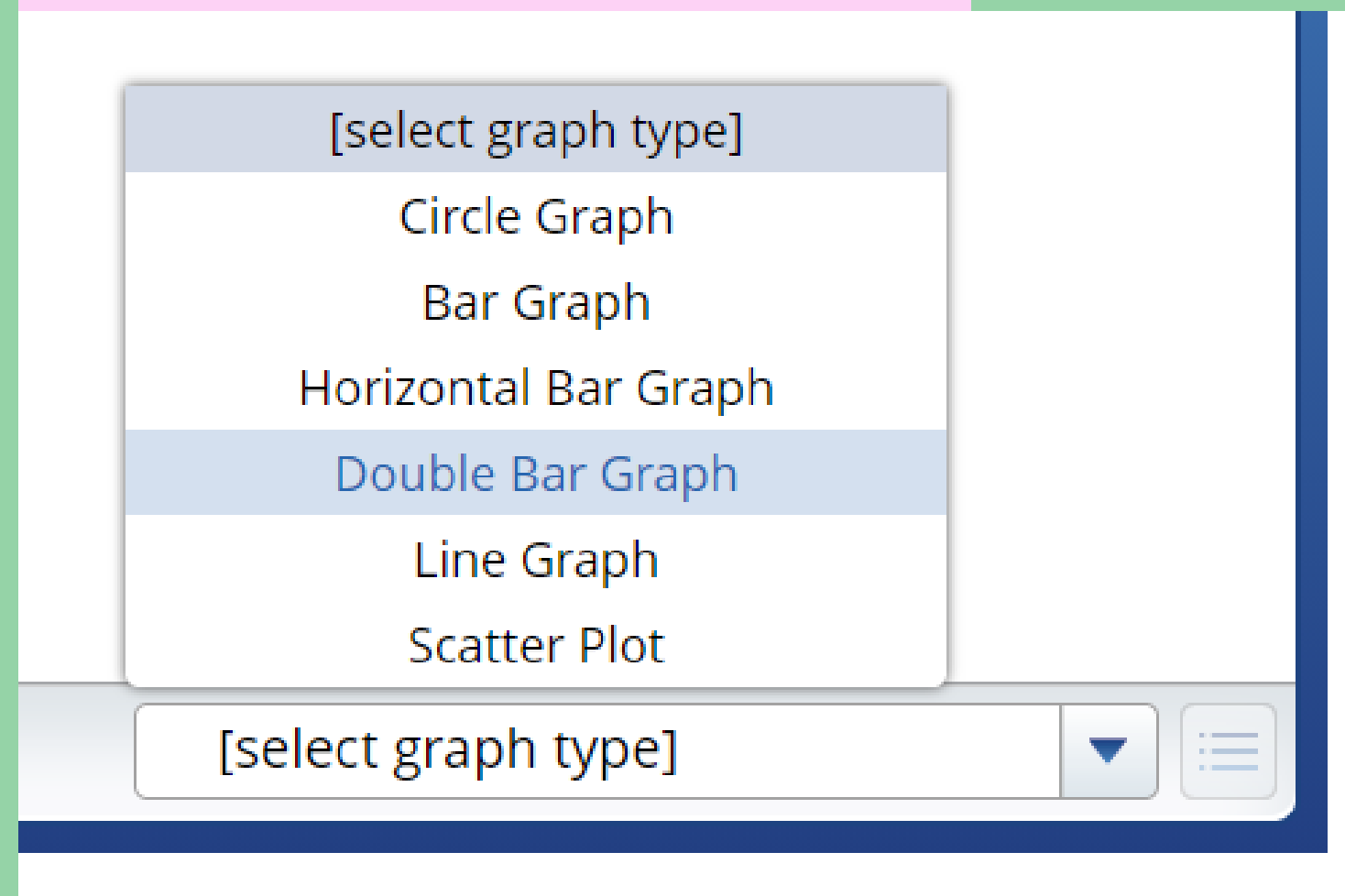
Share your diagram with the class.

# STEP 1

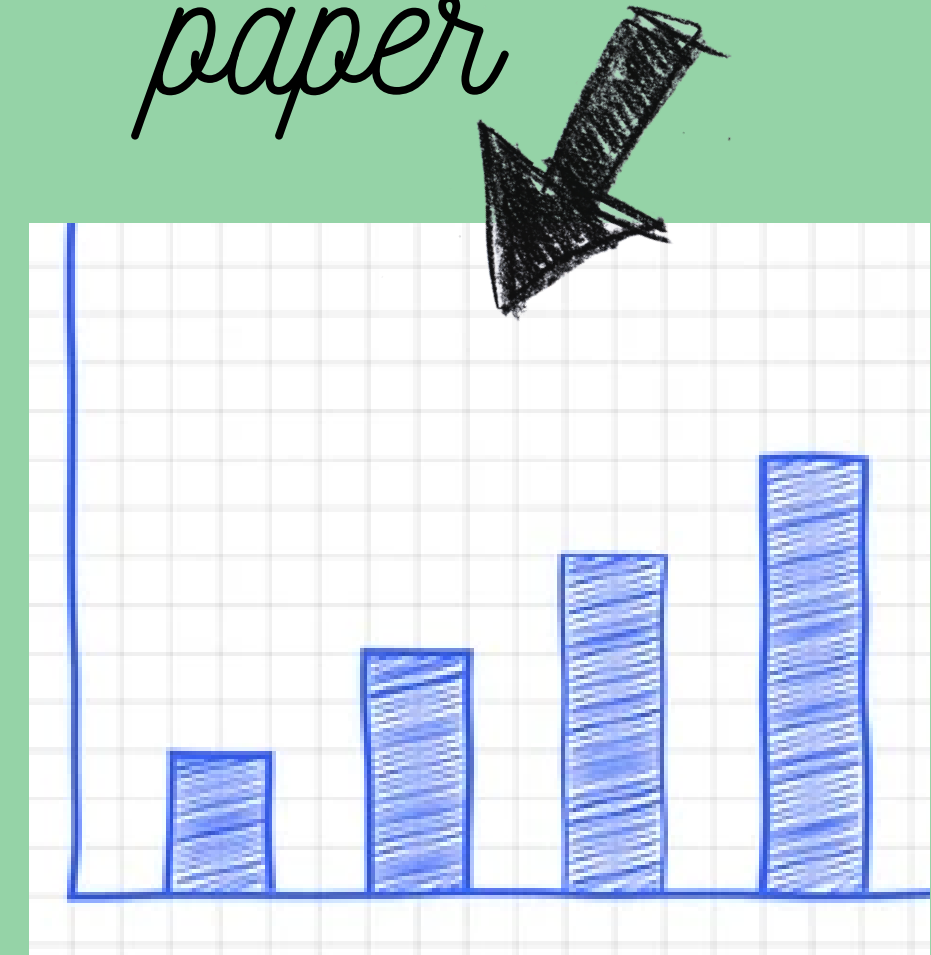
Click **Data and Graphs** in your virtual Math Tools > **Plot Data**



Select Double Bar Graph



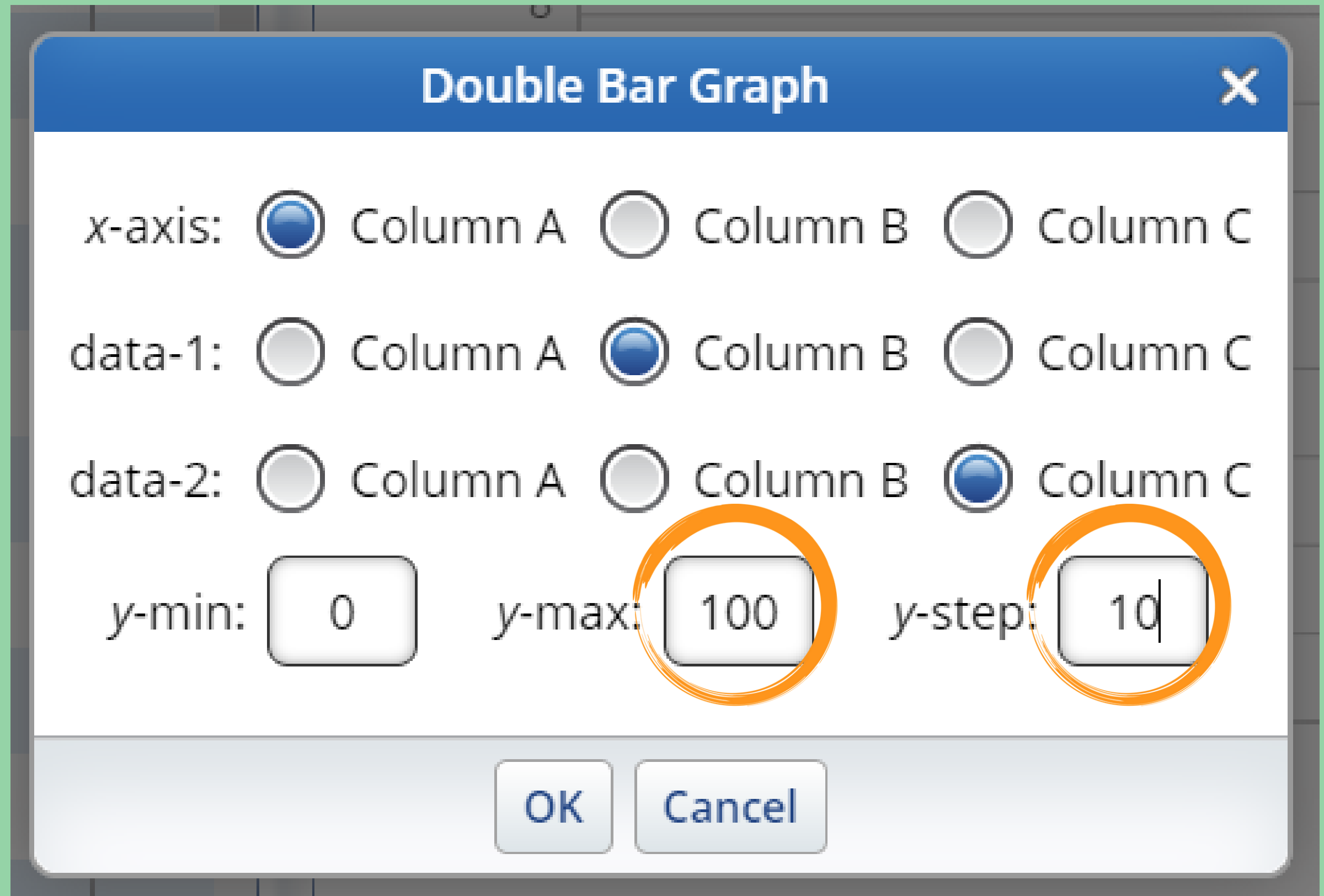
*Or, you can draw your graph by hand on grid paper*



# STEP 2

Change your  
**y-max to 100**  
and your  
**y-step to 10**

Click **OK**



The image shows a dialog box titled "Double Bar Graph" with a close button (X) in the top right corner. The dialog contains three rows of radio button options for the x-axis, data-1, and data-2. Below these are three input fields for y-axis settings: y-min (0), y-max (100), and y-step (10). The y-max and y-step fields are circled in orange. At the bottom are "OK" and "Cancel" buttons.

Double Bar Graph

x-axis:  Column A  Column B  Column C

data-1:  Column A  Column B  Column C

data-2:  Column A  Column B  Column C

y-min:  y-max:  y-step:

OK Cancel



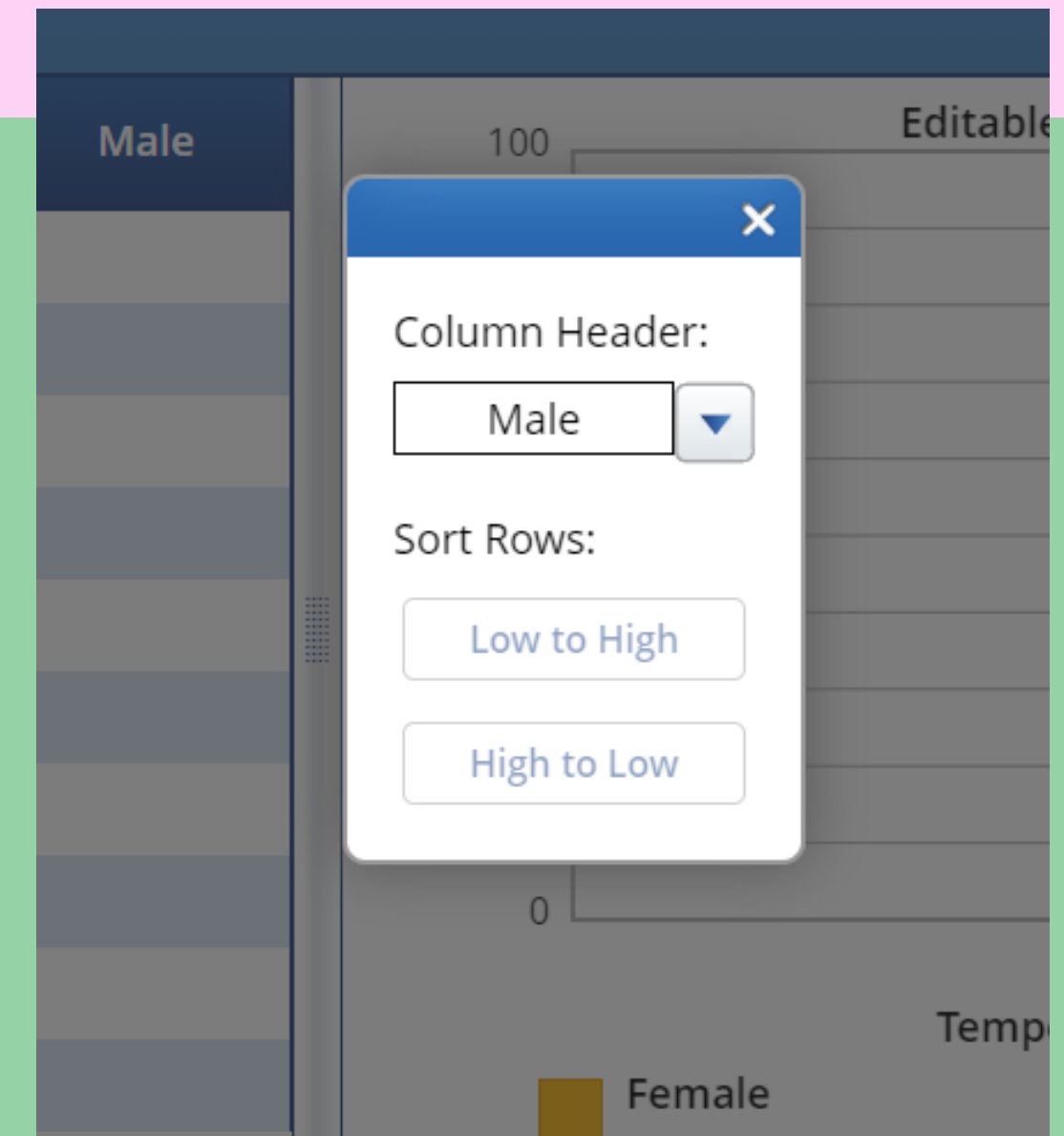
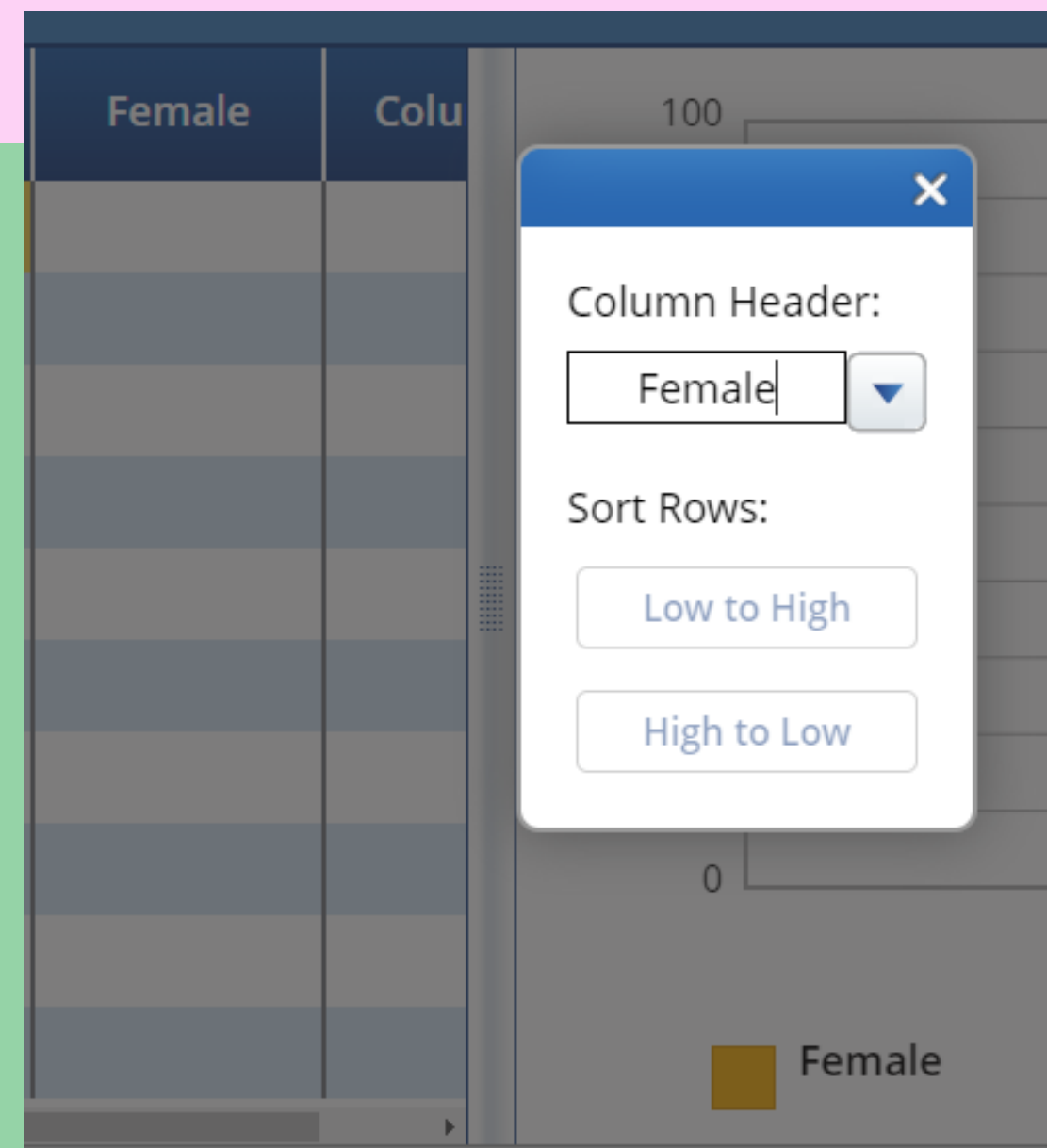




# STEP 5

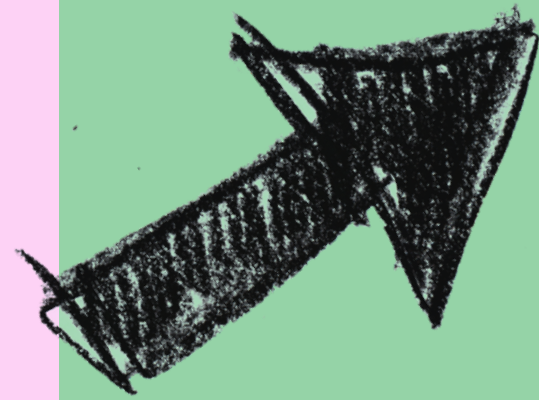
Click **Column B** and change the header to **Females**.

Click **Column C** and change the header to **Males**.



# STEP 6

Enter the Female and Male data from the table.



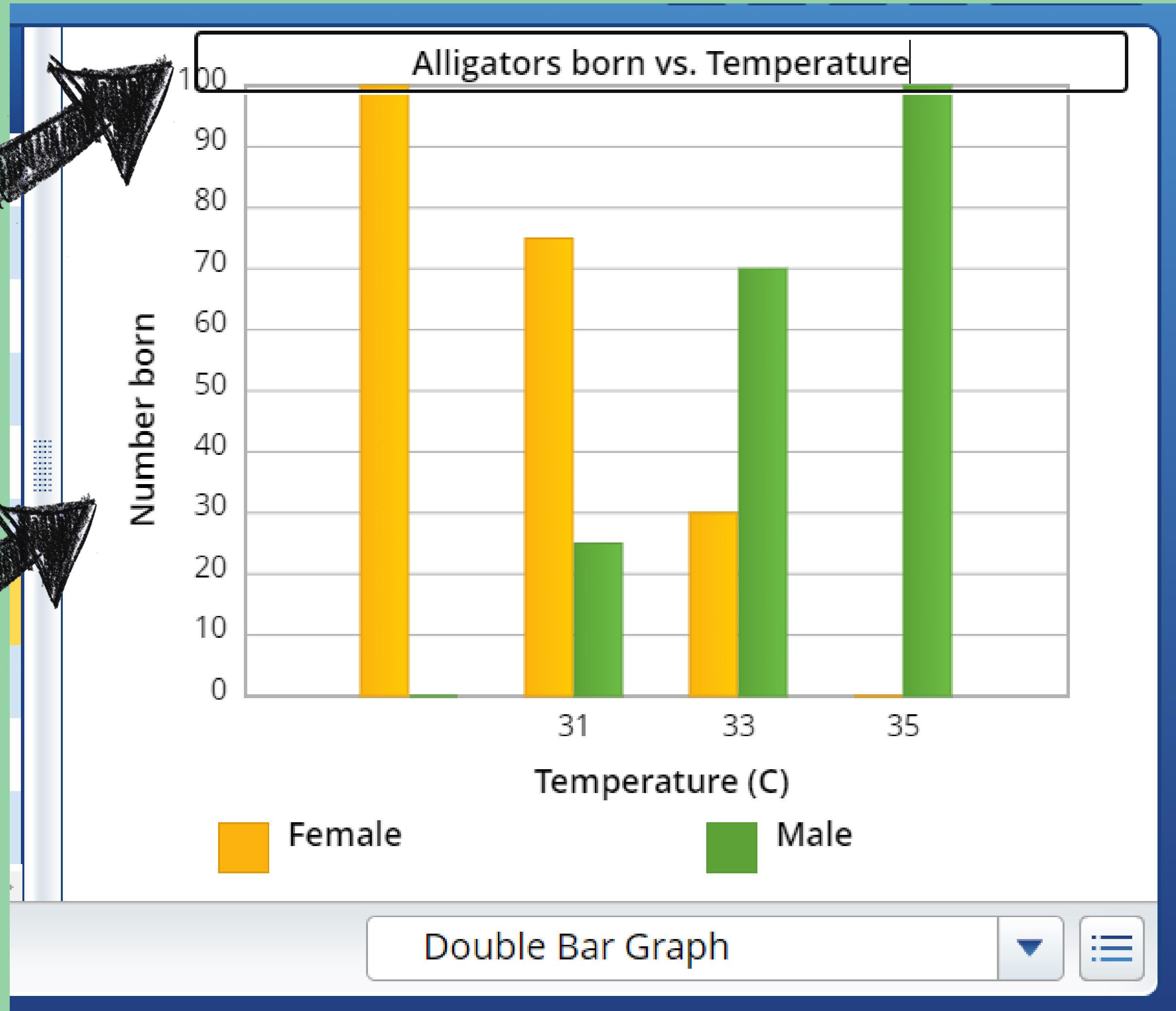
Number of Females	Number of Males
100	0
75	25
30	70
0	100

Plot Data

Temperature (°C)	Female	Male
100	100	0
75	75	25
30	30	70
0	0	100

# STEP 7

Give your graph a **title** and label your **y-axis**.



# STEP 8

Take a screenshot of your graph. Create a slideshow or a poster where you explain how temperature affects alligator babies. Use the example below to help you.

Temperature determines whether the newborn alligators will be males or females. As the temperature increases, more \_\_\_\_\_ alligators are born. As the temperature decreases, more \_\_\_\_\_ alligators are born. For example, at \_\_\_\_\_ degrees Celsius, \_\_\_\_\_ females are born and \_\_\_\_\_ males... I predict that.... because...

