Names of students in this group:

_____

How does the environment affect the growth and survival of plants?

Let's Investigate!

Step 1 - Planning the experiment

- ***Independent variable:*** amount of sunlight
- ***Dependent variable:*** survival of plant
- ***Controlled variables:*** type of plant (genetic makeup), number of seeds, availability of water, time
- ***Inquiry question:*** What is the effect of the *amount of sunlight* on *plants' growth and survival*?

Step 2 - Planning and carrying out the experiment

For example:

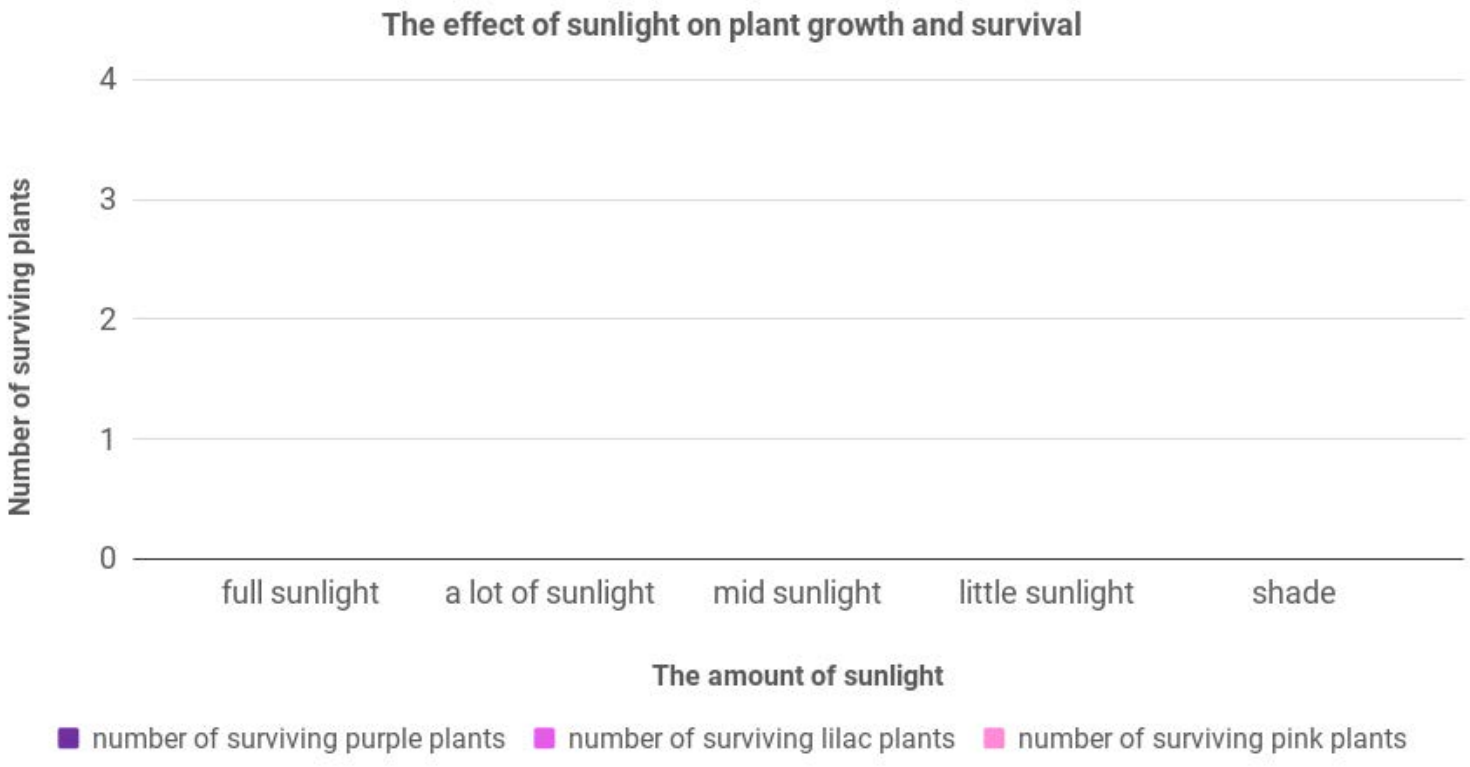
- Select the plant with purple flowers.
- Seed 4 plants in each row with a different amount of sunlight.
- Click *play* button.
- Observe and record the plants' survival.

Step 3 – Analyzing data

Run your experiment. At the end of each run, record the results in the *Result Table*. Run your investigation several times, until you think you have collected enough data.

Type of plants	Amount of sunlight					Number of surviving plants
	Full sun	A lot of sun	mid sun	Little sun	Shade	

Plot the graph here:



Step 4 – Interpreting data and communicating information

1. What **pattern** can you find in the data? Discuss with your partner the trends and record them here.

2. What **claim** can you make about the effect of environmental factors on plants' growth and survival? What evidence do you have that support your claim? What is your reasoning?

3. How does your investigation help explain **Monique's diabetes**?

4. How can your investigation help answer the driving question: **What controls my health**?