

9th Grade

# Cell Processes and Energy - Science

Here is where your presentation begins

# Contents of this template

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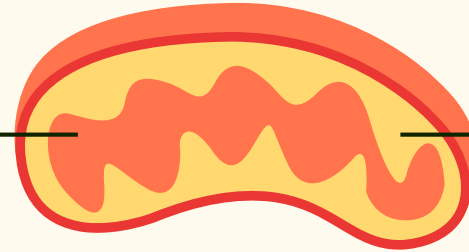
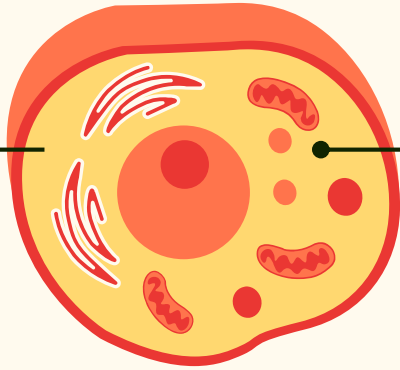
Respiration

You can describe the topic of the section here

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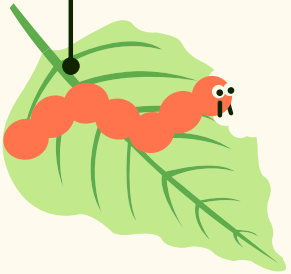
Applications

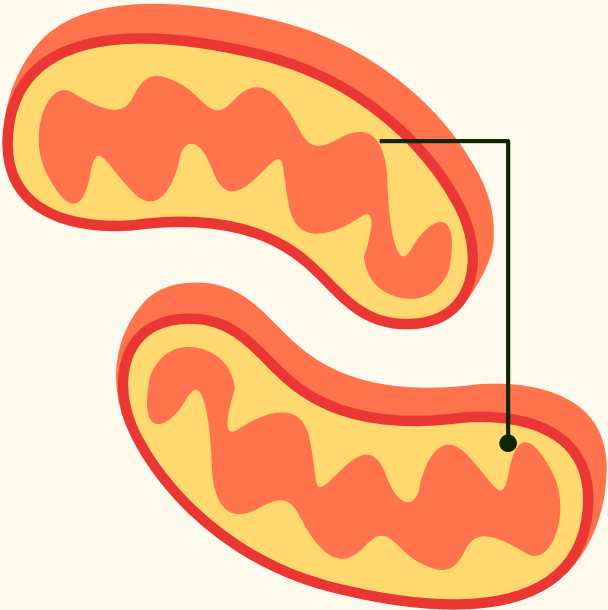
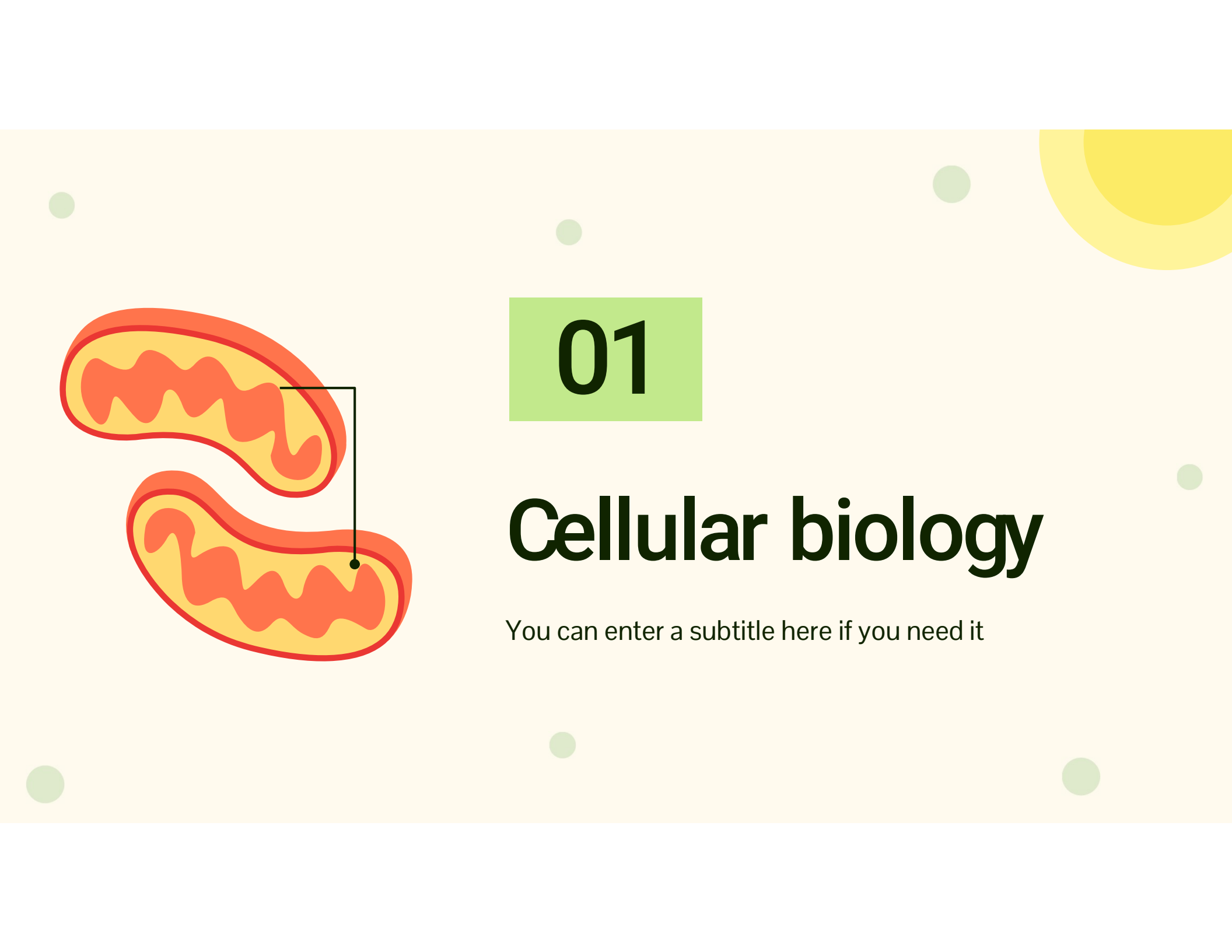
You can describe the topic of the section here



# Whoa!

This can be the part of the presentation where  
you introduce yourself, write your email...





01

# Cellular biology

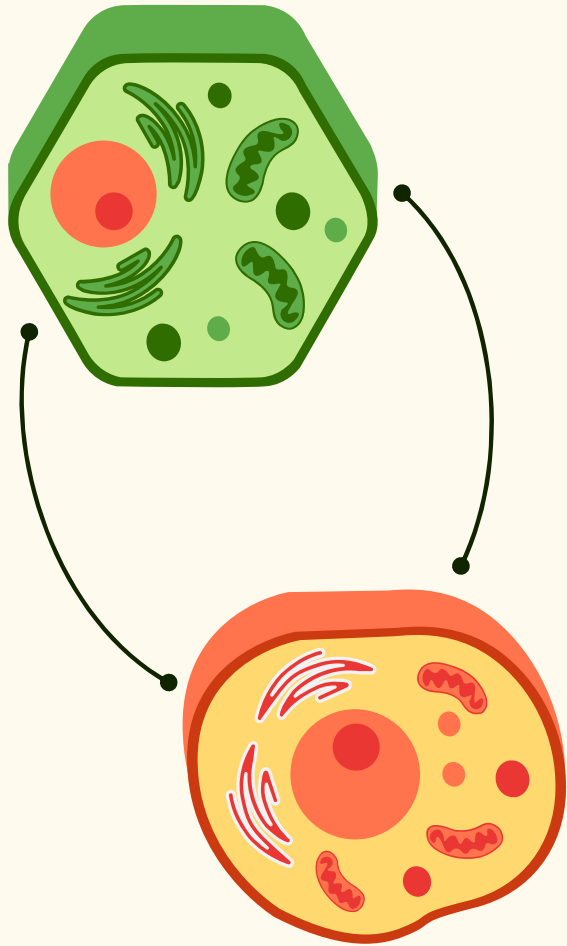
You can enter a subtitle here if you need it

# Introduction to cellular biology



Mercury is the closest planet to the Sun and the smallest one in the entire Solar System. Contrary to popular belief, this planet's name has nothing to do with the liquid metal. Mercury was, instead, named after the famous Roman messenger god Mercurius

Mercury takes a little more than 58 days to complete its rotation, so try to imagine how long days must be there! Since the temperatures are so extreme, albeit not as extreme as on Venus, Mercury has been deemed to be non-habitable for humans



# Application in medicine

Do you know what helps you make your point crystal clear? Lists like this one:

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

And the most important thing: the audience won't miss the point of your presentation

# Mitosis and meiosis



## Mitosis

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon



## Meiosis

Venus has a beautiful name and is the second planet from the Sun. It's hot and has a poisonous atmosphere





# Application in technology



## Mercury

Mercury is the closest planet to the Sun and the smallest of them all



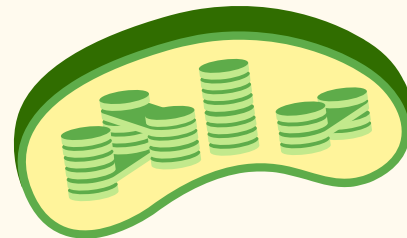
## Venus

Venus has a beautiful name and is the second planet from the Sun



## Mars

Despite being red, Mars is actually a cold place. It's full of iron oxide dust



# Cellular respiration



## Mars

Mars is actually a very cold place



## Venus

Venus has extremely high temperatures



## Jupiter

Jupiter is the biggest planet of them all



## Saturn

Saturn is a gas giant and has several rings



# Photosynthesis

## Mars

Mars is actually a very cold place

## Venus

Venus has extremely high temperatures

## Neptune

Neptune is the farthest planet from the Sun

## Mercury

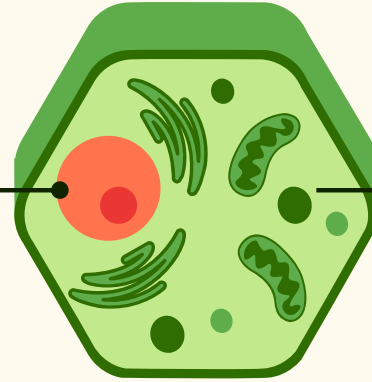
Mercury is the closest planet to the Sun

## Saturn

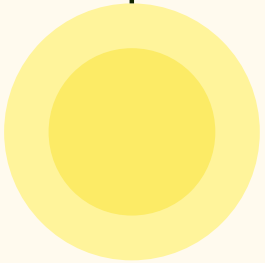
Saturn is a gas giant and has several rings

## Jupiter

Jupiter is the biggest planet of them all

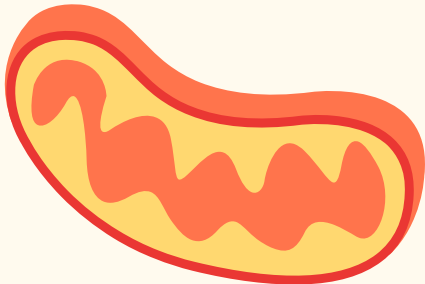


**Awesome  
words**



“This is a quote, words full of wisdom  
that someone important said and  
can make the reader get inspired”

—Someone Famous



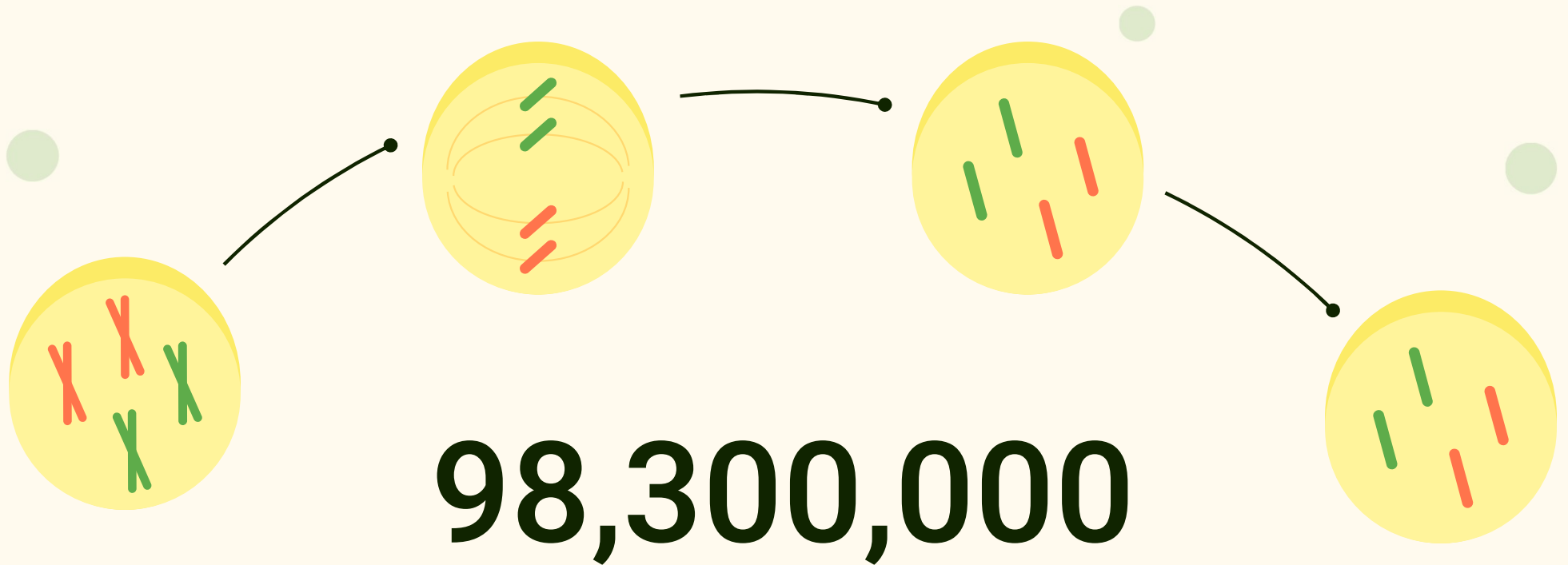


**A picture is worth a thousand words**



# A picture always reinforces the concept

Images reveal large amounts of data, so remember: use an image instead of a long text. Your audience will appreciate it

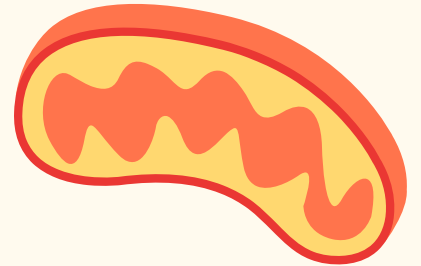


Big numbers catch your audience's attention



**9h 55m 23s**

Jupiter's rotation period



**333,000**

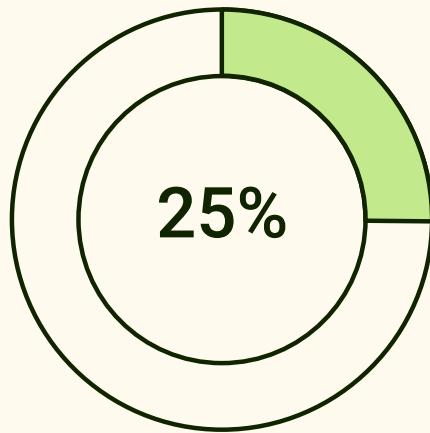
The Sun's mass compared to Earth's



**386,000 km**

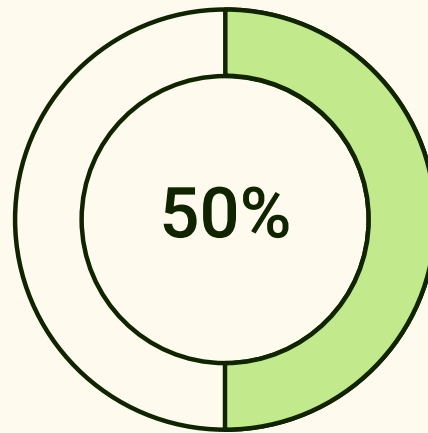
Distance between Earth and the Moon

# Cellular diffusion



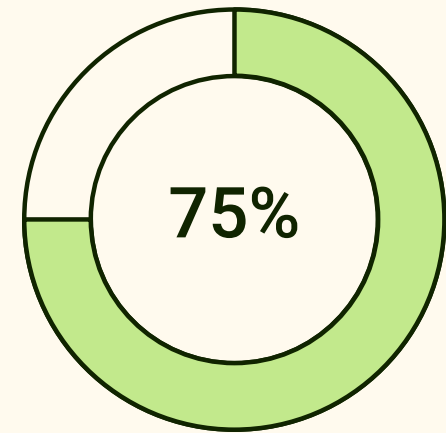
## Mercury

Mercury is the closest planet to the Sun and the smallest of them all



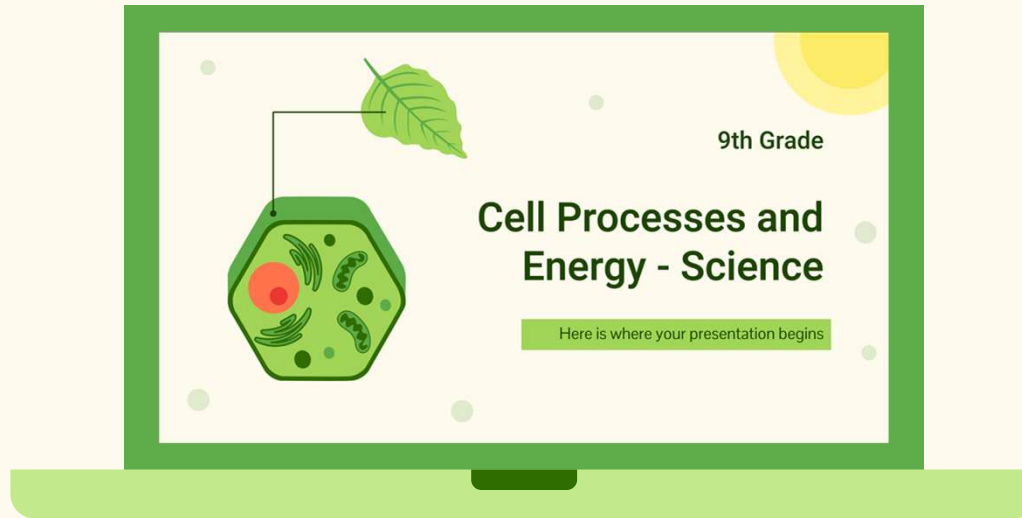
## Venus

Venus has a beautiful name and is the second planet from the Sun



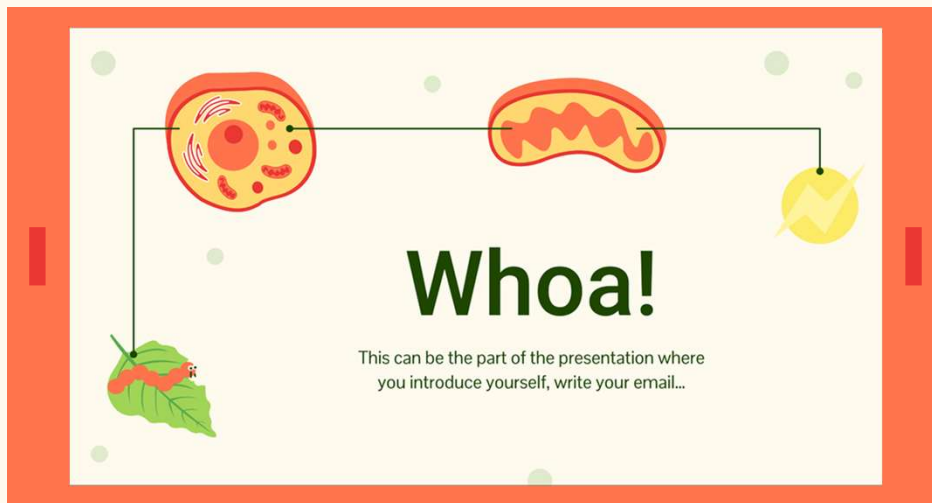
## Mars

Despite being red, Mars is actually a cold place. It's full of iron oxide dust



# Desktop software

You can replace the image on the screen with your own work. Just right-click on it and select “Replace image”

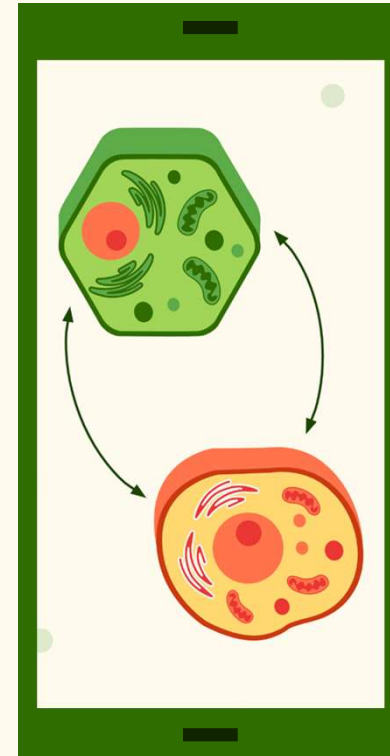


# Tablet app

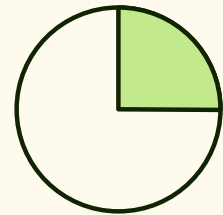
You can replace the image on the screen with your own work. Just right-click on it and select "Replace image"

# Mobile app

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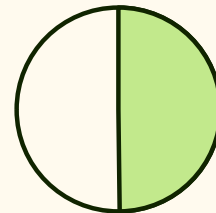


# Discoveries around the world



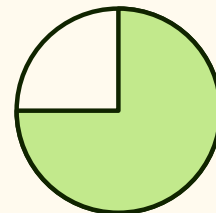
**25%**

Venus is the second planet from the Sun



**50%**

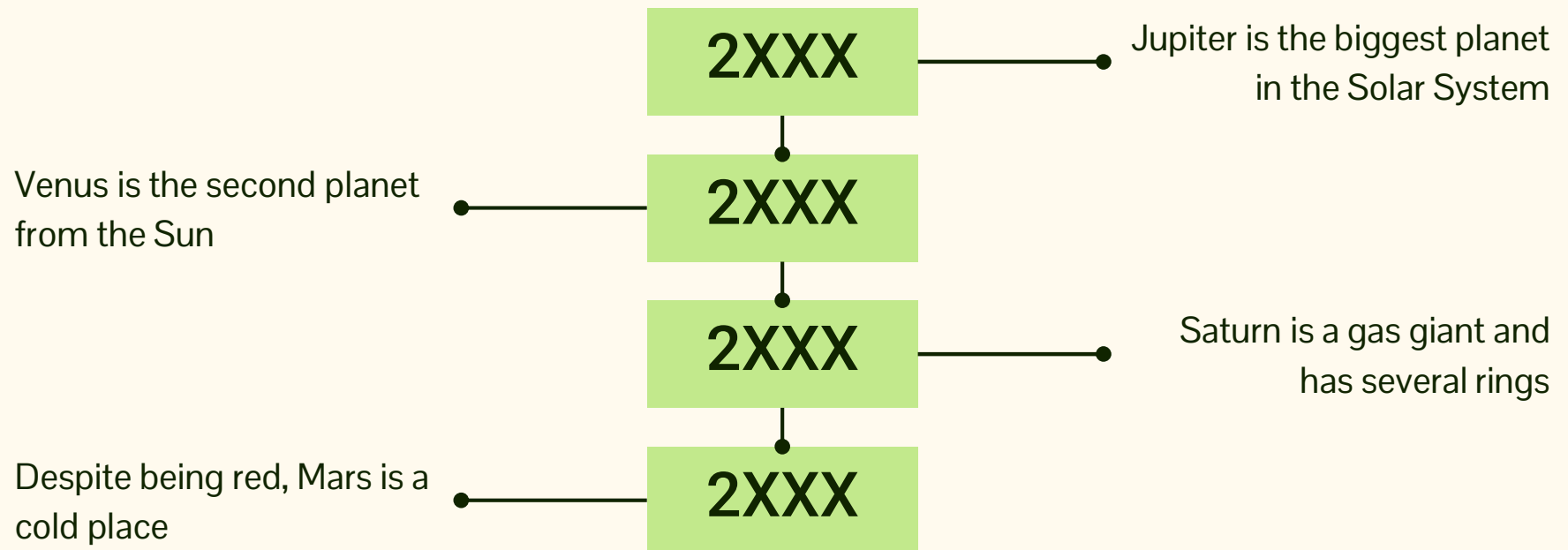
Mercury is the closest planet to the Sun



**75%**

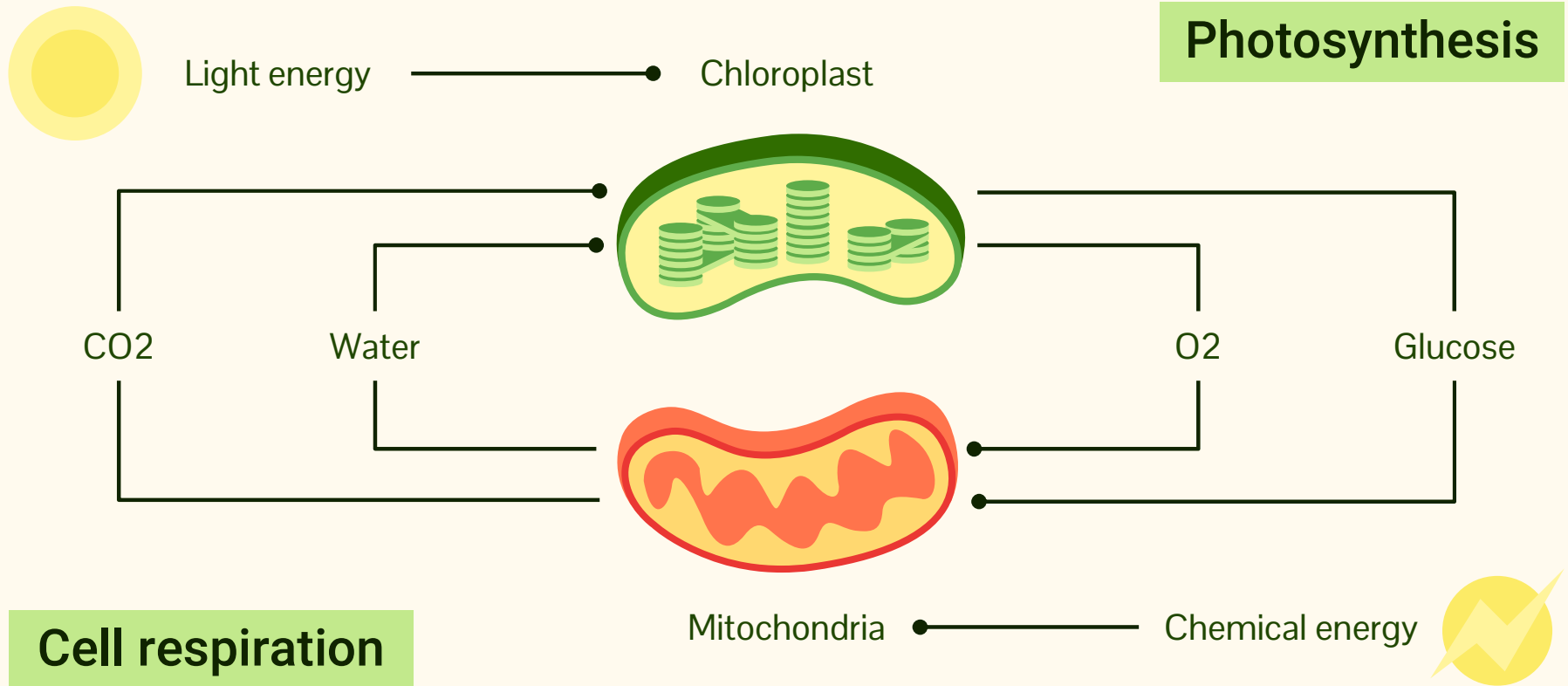
Despite being red, Mars is a very cold place

# Cell process over time



# The cell energy cycle

## Photosynthesis



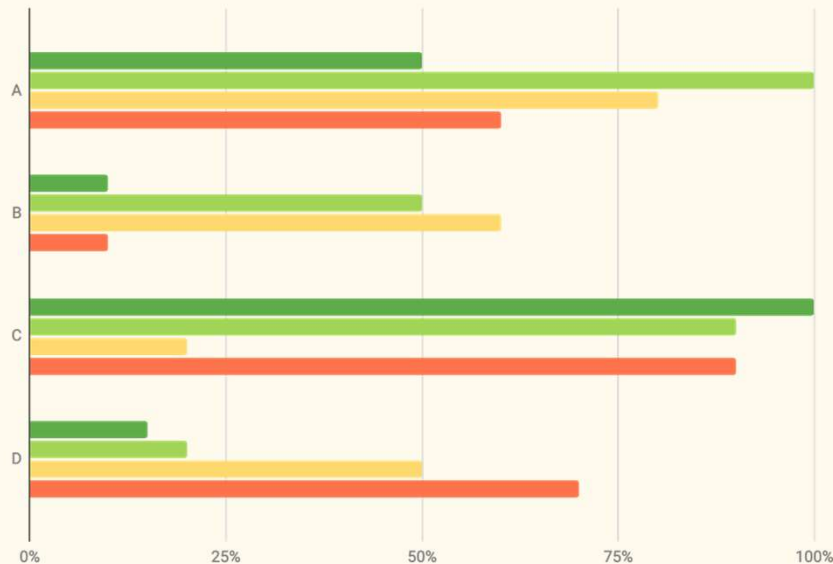
## Cell respiration



# Importance in daily life

Cellular process	Description	Importance
Venus	Venus is the second planet from the Sun	Venus is a hot planet
Mars	Despite being red, Mars is a cold place	Mars is a cold planet
Neptune	Neptune is far away from Earth	Neptune is an ice giant
Mercury	Mercury is the closest planet to the Sun	Mercury is very small
Jupiter	Jupiter is the biggest planet of them all	Jupiter is a gas giant

# ATP production



## Mercury

Mercury is a small planet

## Venus

Venus has high temperatures

## Jupiter

Jupiter is a huge gas giant

## Saturn

Saturn has several rings

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

# Our team



**Sofia Hill**

You can speak a bit about this  
person here



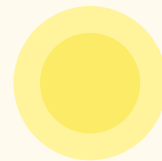
**Luis Harrison**

You can speak a bit about this  
person here

# Cell types

**Jupiter**  
Jupiter is the biggest planet of them all

**Saturn**  
Saturn is a gas giant and has several rings



**Cells**



**Mercury**  
Mercury is the closest planet to the Sun

**Neptune**  
Neptune is the farthest planet from the Sun

# Activity 1: fundamental knowledge

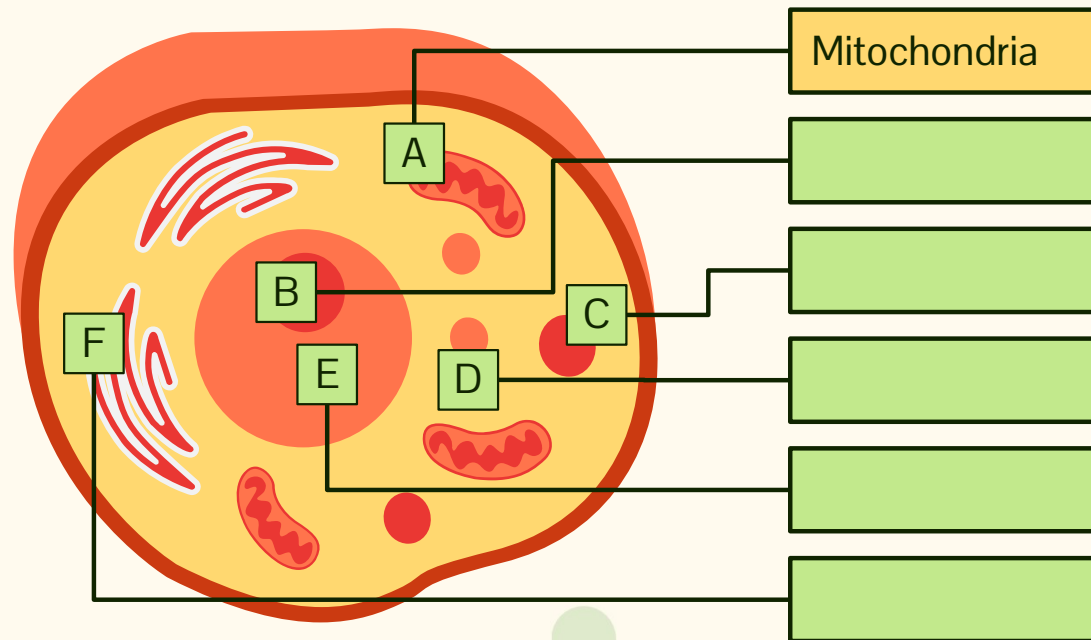
Read the **description** and **select** the **correct word** from the word bank

Word bank	
A	Cells
B	Cellular respiration
C	Photosynthesis
D	Cellular division
E	Mitosis
F	Meiosis

Description	
C	How plants make food using sunlight
	The basic structural and functional units of all living organisms
	It halves chromosome number for creating reproductive cells
	It creates two identical daughter cells
	How cells make energy from food and oxygen
	The process of one cell dividing into two or more new cells

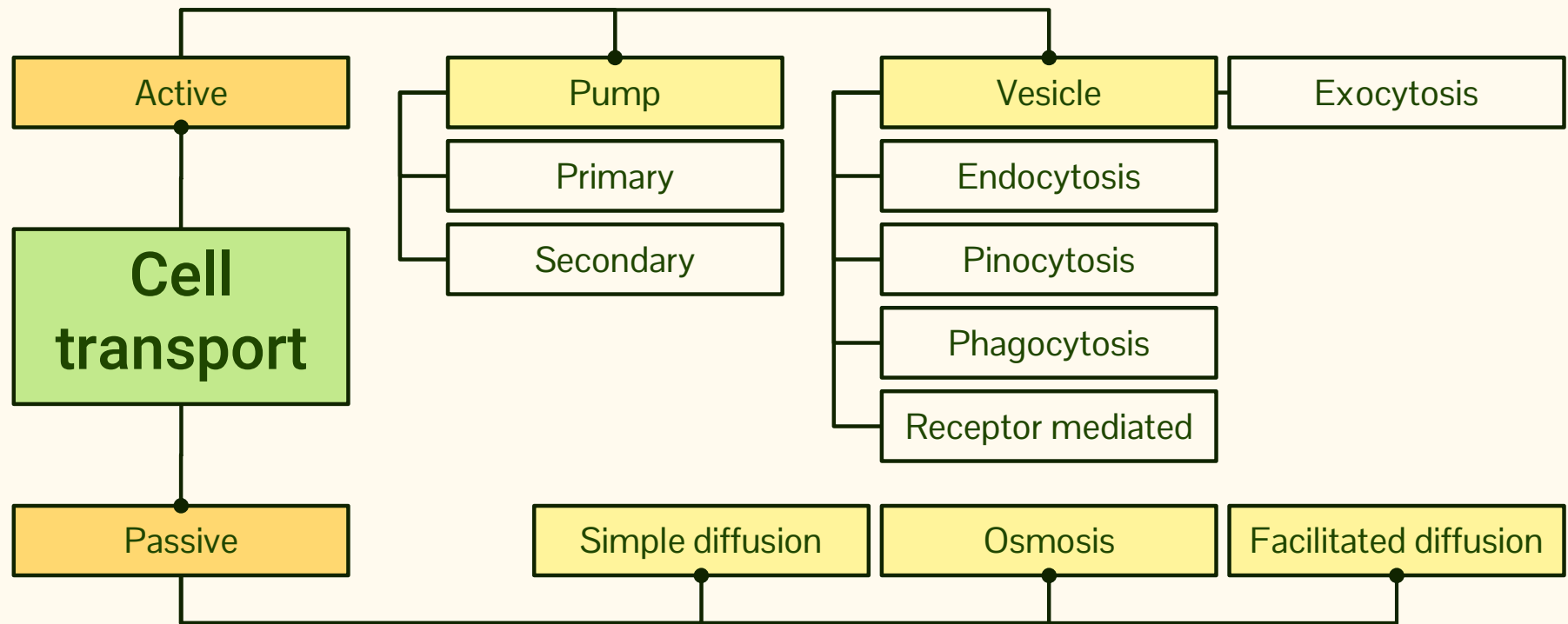
# Activity 2: animal cell

Use the descriptions to label the parts of the animal cell



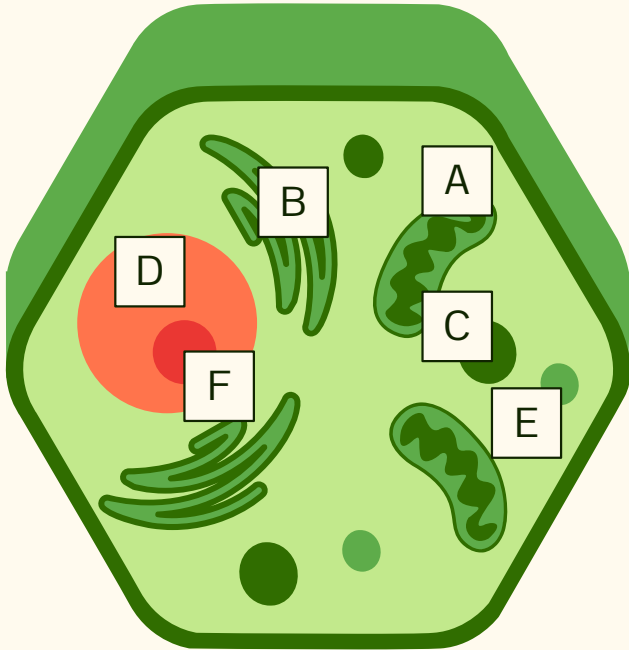
Part	Description
A	Cellular powerhouses
B	Makes ribosome
C	Storage sac in cells
D	Cells' protein builder
E	Cell's control center
F	Cellular packaging and shipping

# Cell transport



# Activity 3: plant cell

Read the **description** and look at the figure. Then label the **parts** of the **plant cell**



Part	Name	Description
A	Chloroplast	Photosynthesis site
B		Cellular packaging and shipping
C		Cellular storage sac
D		Cell's control center
E		Protein builder
F		Ribosome producer



# Cellular division

## Mitosis

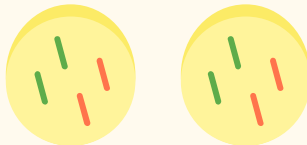
Prophase



Metaphase

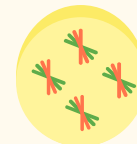


Anaphase

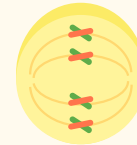


## Meiosis

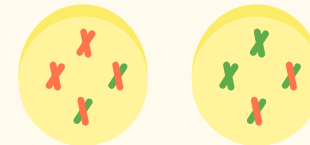
Prophase I



Metaphase I



Anaphase I

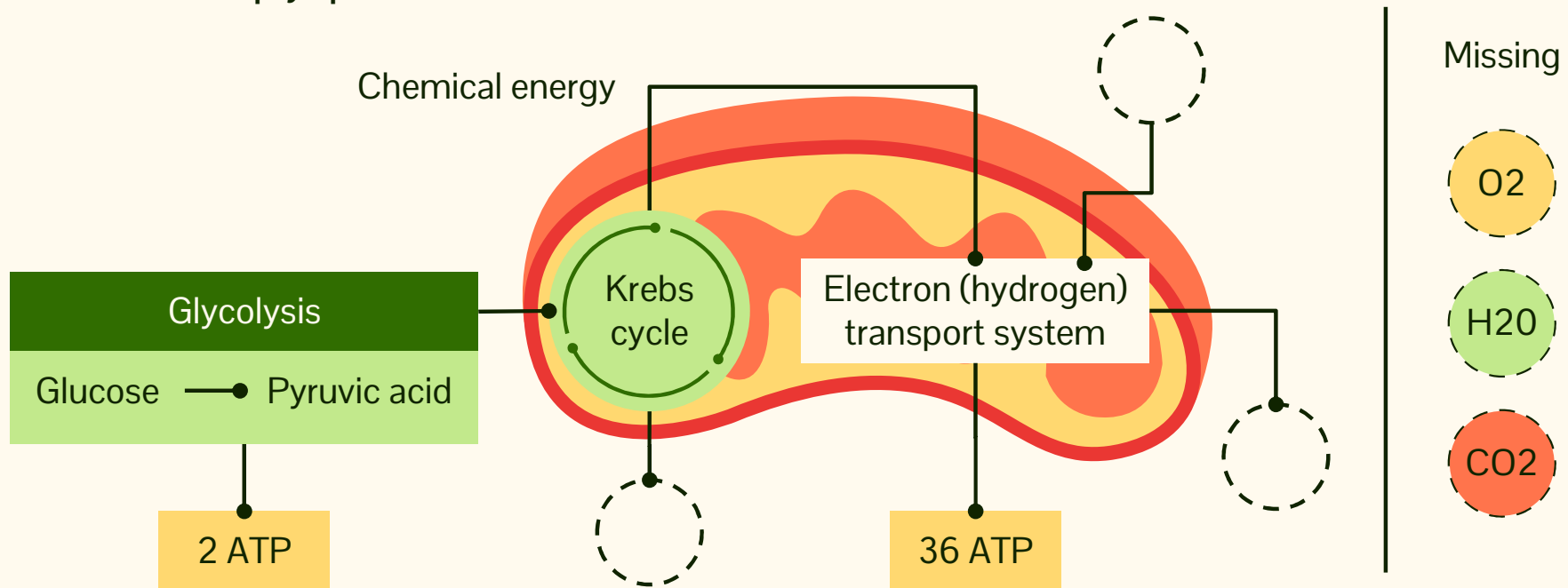


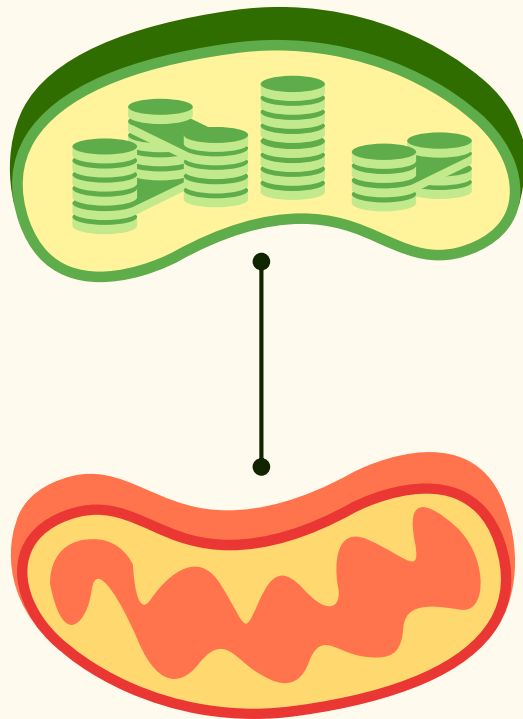
Meiosis II



# Activity 4: ATP production

For ATP production to be complete, **oxygen**, **water** and **carbon dioxide** must be added. Drag them to the correct empty spaces





# Thanks!



Do you have any questions?

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# Icon pack

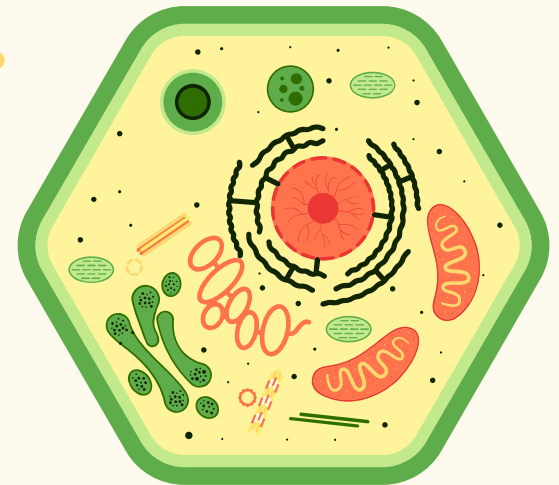
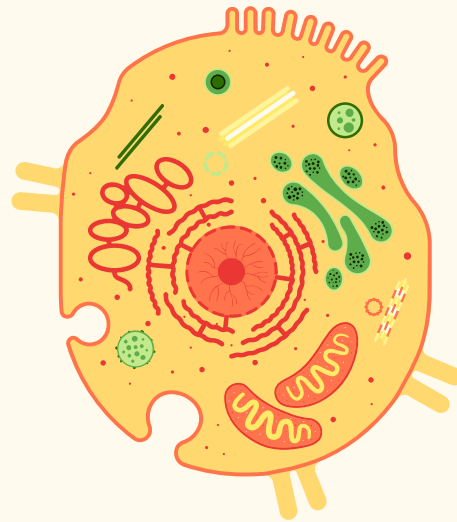


# Alternative resources

Here's an assortment of alternative resources whose style fits that of this template:

## Vectors:

Cell anatomy of plant and animal composition with set of colorful educational images with text captions vector illustration



# Resources

Did you like the resources on this template?  
Get them for free on these websites:

## Photos

- [Girl learning more about chemistry in class](#)
- [Children learning more about chemistry in class](#)

## Icons

- [Cell structure flat icon pack](#)



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(<https://fonts.google.com/specimen/Heebo>)

**Pontano Sans**

(<https://fonts.google.com/specimen/Pontano+Sans>)

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#fff49b

#fceb66

#c2e98c

#5eac4a

#306d00

#ffd870

#ff744c

#ea3733

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Pana



Amico



Bro



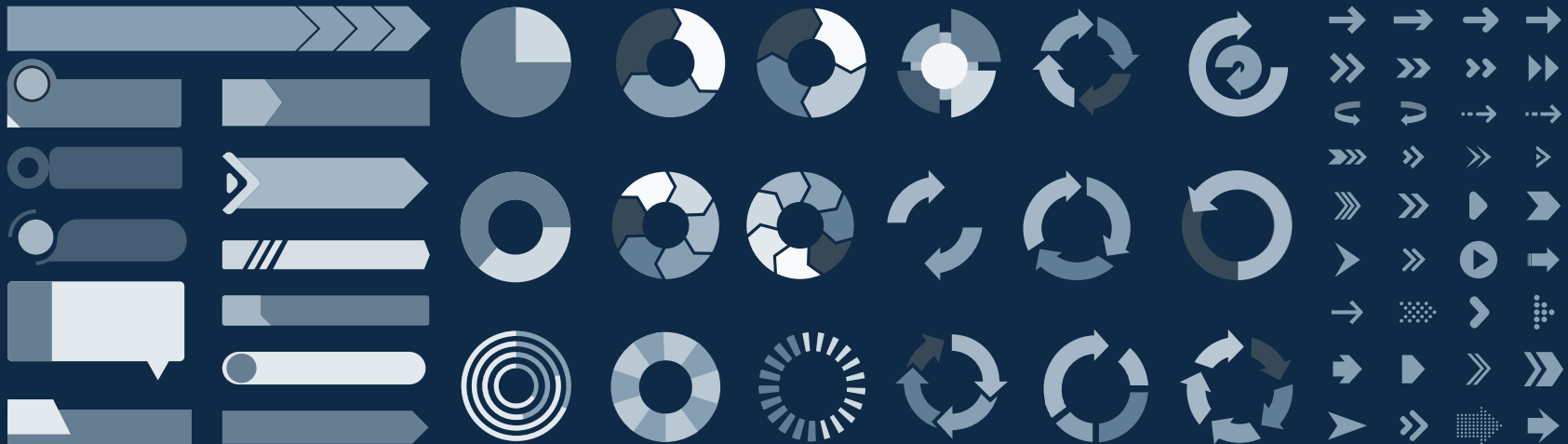
Rafiki



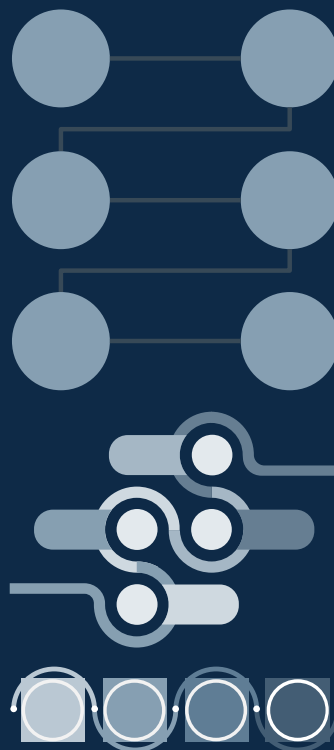
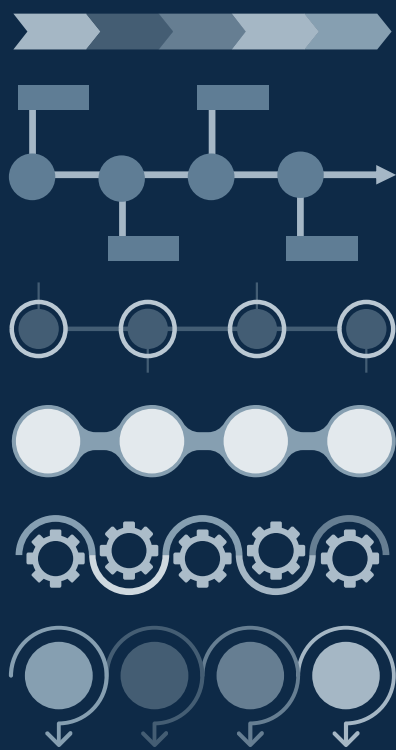
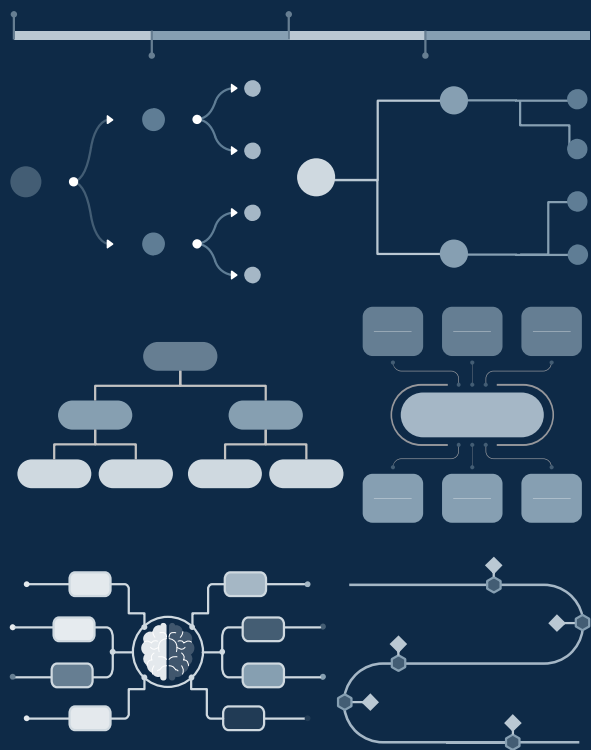
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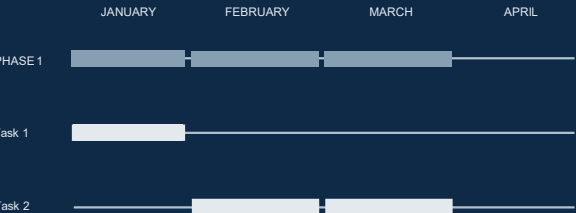
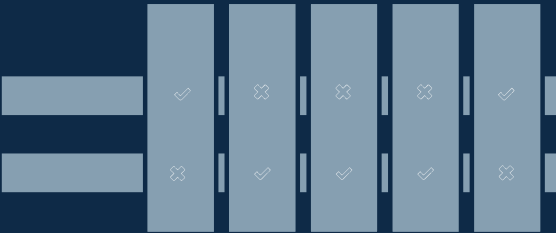
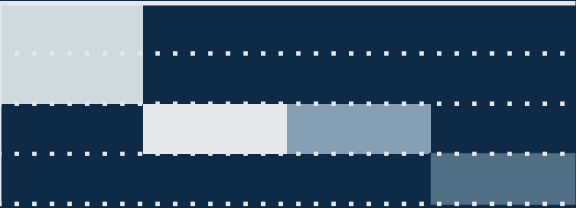
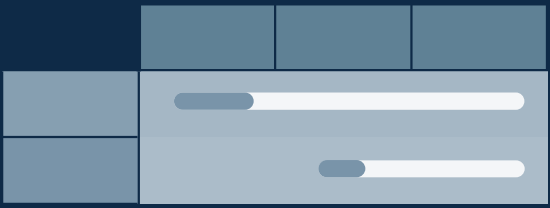
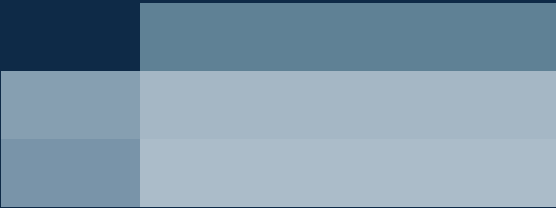
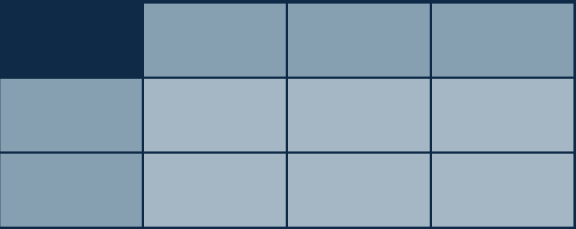
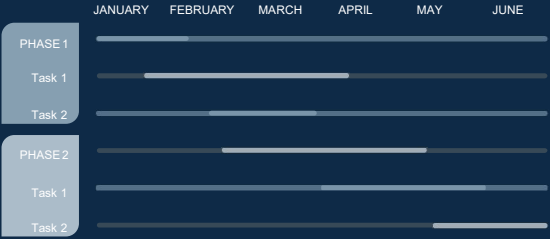
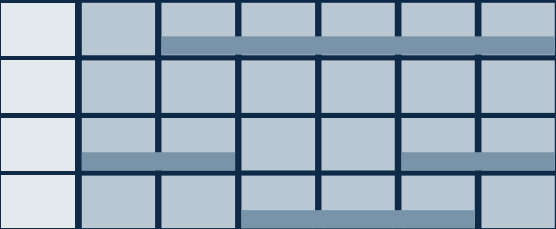
# Use our editable graphic resources...

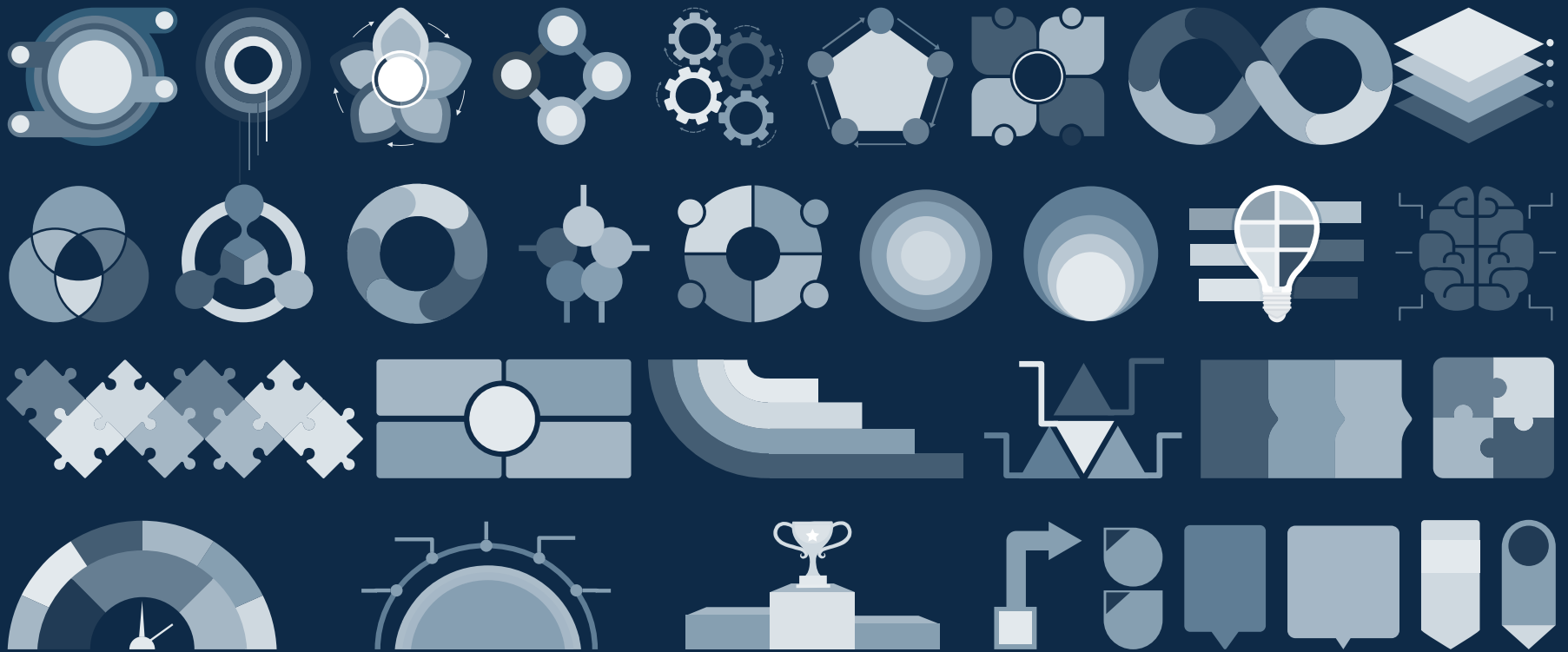
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## Educational Icons



## Medical Icons



# Business Icons



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## Creative Process Icons



## Performing Arts Icons



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