

Introduction to Cells

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A Technology Integrated Lesson

Do-Now



Do-Now: Answer the question in complete sentences.

What organizations/ groups are you in and what role do you play?

An organization or group that I am involved in is _____ and the role I play is _____.

3:00

Today's Objective

SWBAT understand that all living things are made of cells by exploring an iPad app and completing an exit ticket with 100% accuracy.



1:00
Stop



Essential Question?

How do organelles help the cell function?

Think of the organizations and groups you are involved in and how your role influences everyone else.

Introduction to Cells



Let's Talk About It

In your groups, discuss your observations from the video clip.

I observed...

I thought it was interesting when...

I would like to know...

I wonder...



What do you know about cells?

Write at least 1 thing you know about cells in your notebooks.

1:00

Stop

**WHEN THE TEACHER STARTS TEACHING
ABOUT CELL THEORY**



**WAIT? WHAT ARE
CELLS?**

Cell Theory

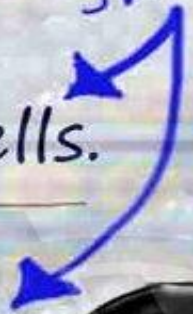
1. All organisms are made of 1 or more cells.

2. Cells are the basic building blocks of life.

3. All cells come from existing cells.

Rudolf Virchow

Theodore Shwann



Microscope



Theodore Shwann



Rudolf Virchow



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Cell Theory #1

- All organisms are made up of cells?



Cell Theory #2

- Cells are the basic building blocks of life.

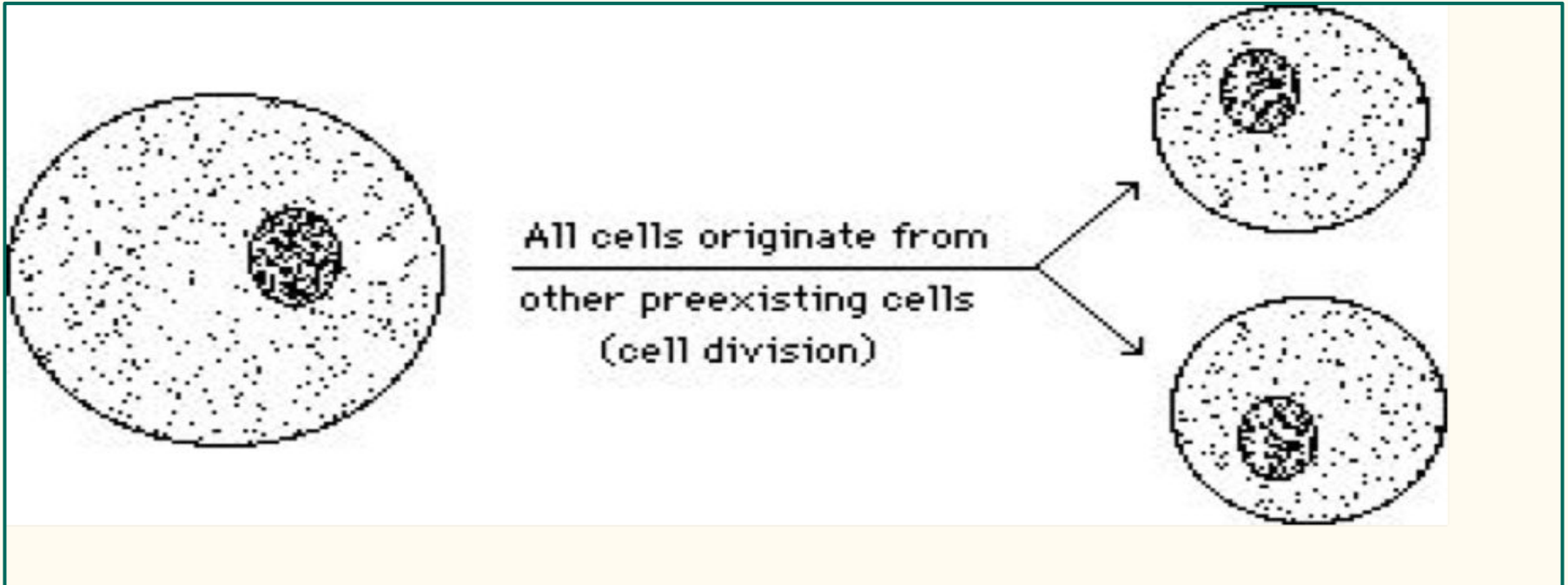
DO YOU LIKE LEGO?



Each brick (Lego piece) is a **basic building block** of the truck in the Lego world. Similarly, cells are the basic building blocks of living things. A cell is the basic unit of life.

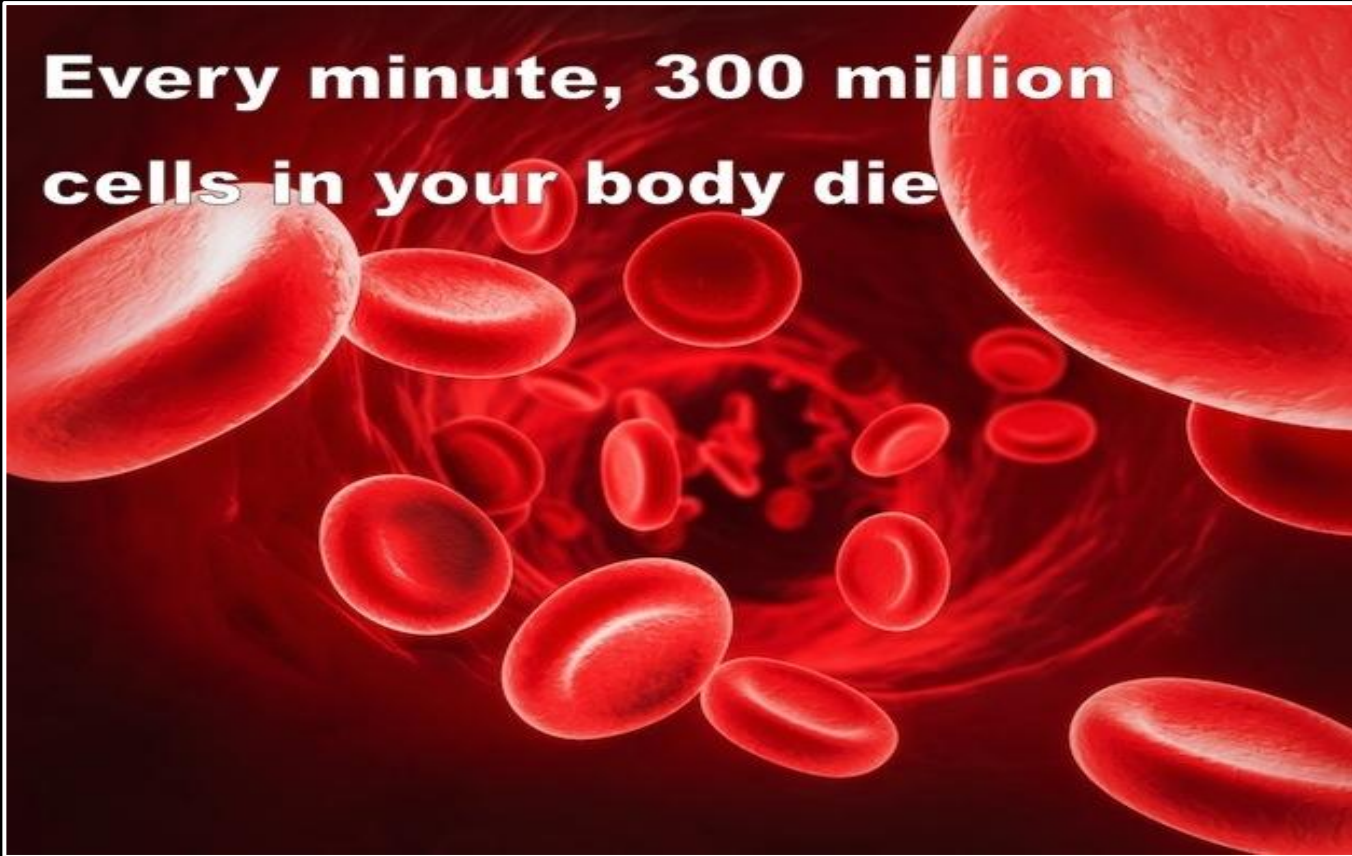
Cell Theory #3

- All cells come from existing cells.

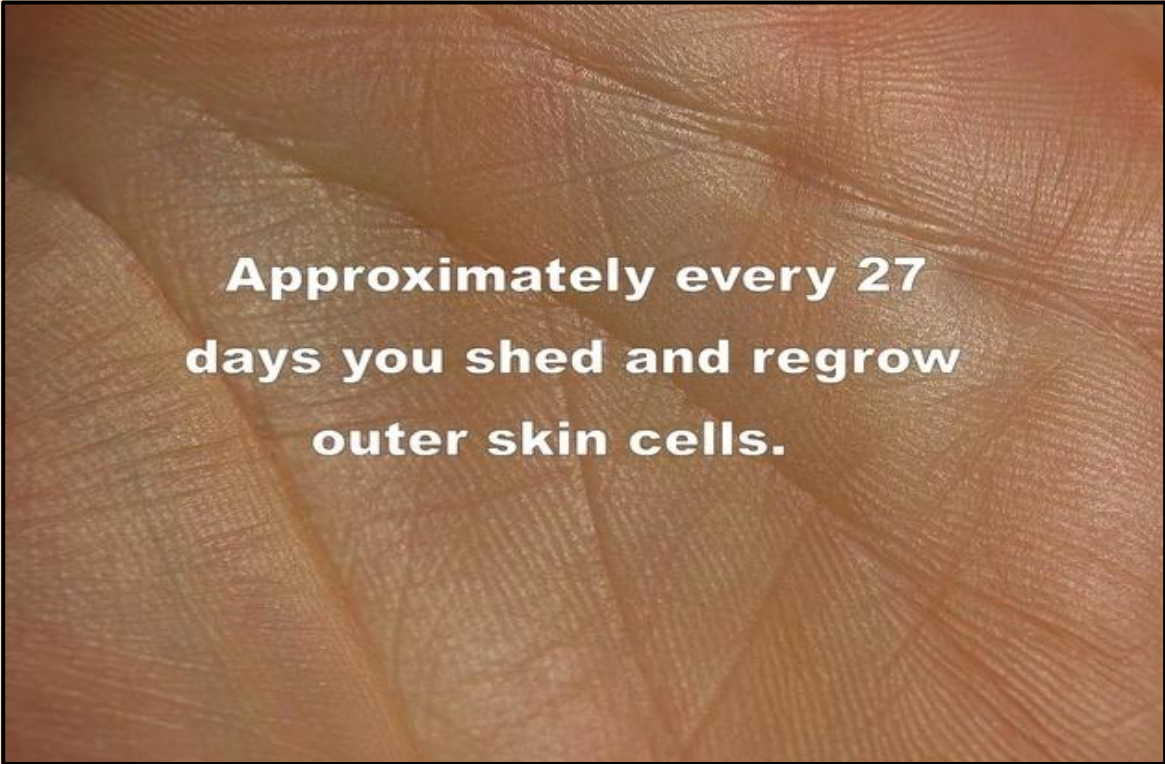


Did You Know?

**Every minute, 300 million
cells in your body die**



Did You Know?



**Approximately every 27
days you shed and regrow
outer skin cells.**

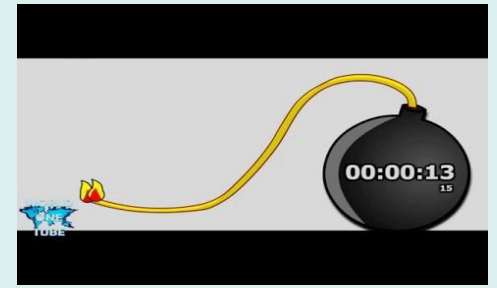
Think Fast Rules



1. Read the question.
2. Write your answers in your notebook.
3. You have 15 seconds to answer each question.

Think Fast...

Which of the following is Not a living thing?

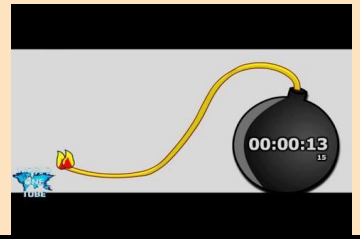


A) A Puppy

B) Water

C) Bacteria

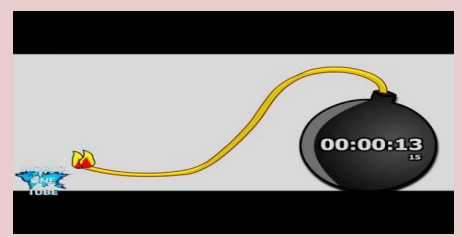
Think Fast...



True or Nah...

Cells are like legos because they are square shaped.

Think Fast...



Fill in the blank.

All cells come from _____.

Hint: It's 2 words!

Think Fast Answers



Water is Not a living thing.

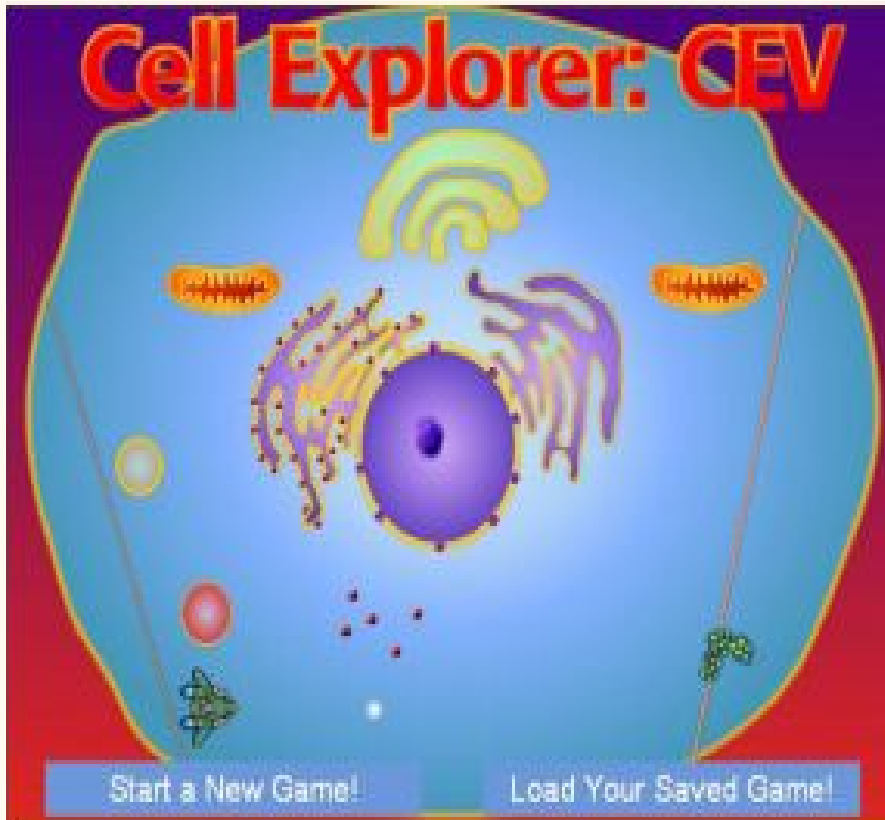
True or Nah...

Cells are like legos because they are square shaped.

Nah! Cells are like legos because they are the building blocks of life.

All cells come from existing cells.

CellExplorer App & Cell Organelle Graphic Organizer



Directions:

Using the CellExplorer app, complete mission #1 by exploring the cell to learn about the organelles and their functions.

As you are exploring the cell, fill out the life process/ functions column and note whether the organelle is present in animal, plant or both cells on the organelle graphic organizer.

That's All Folks!!!

Have a great day and
see you all tomorrow!

