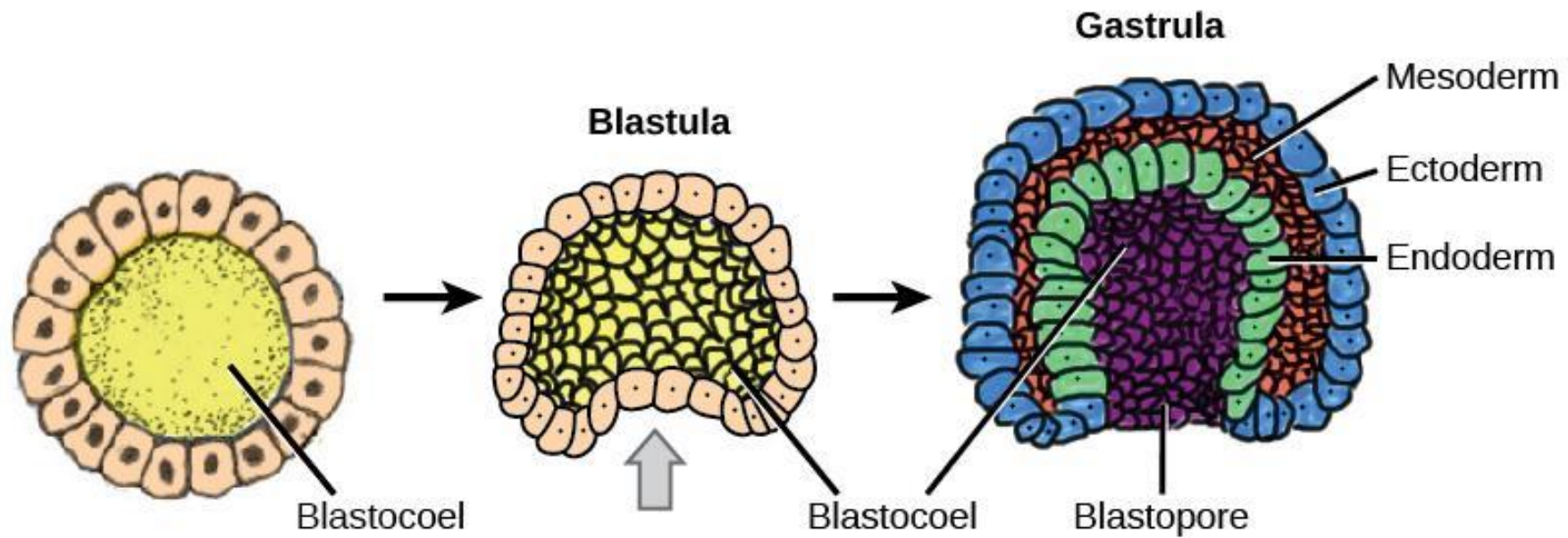


Organ Odyssey

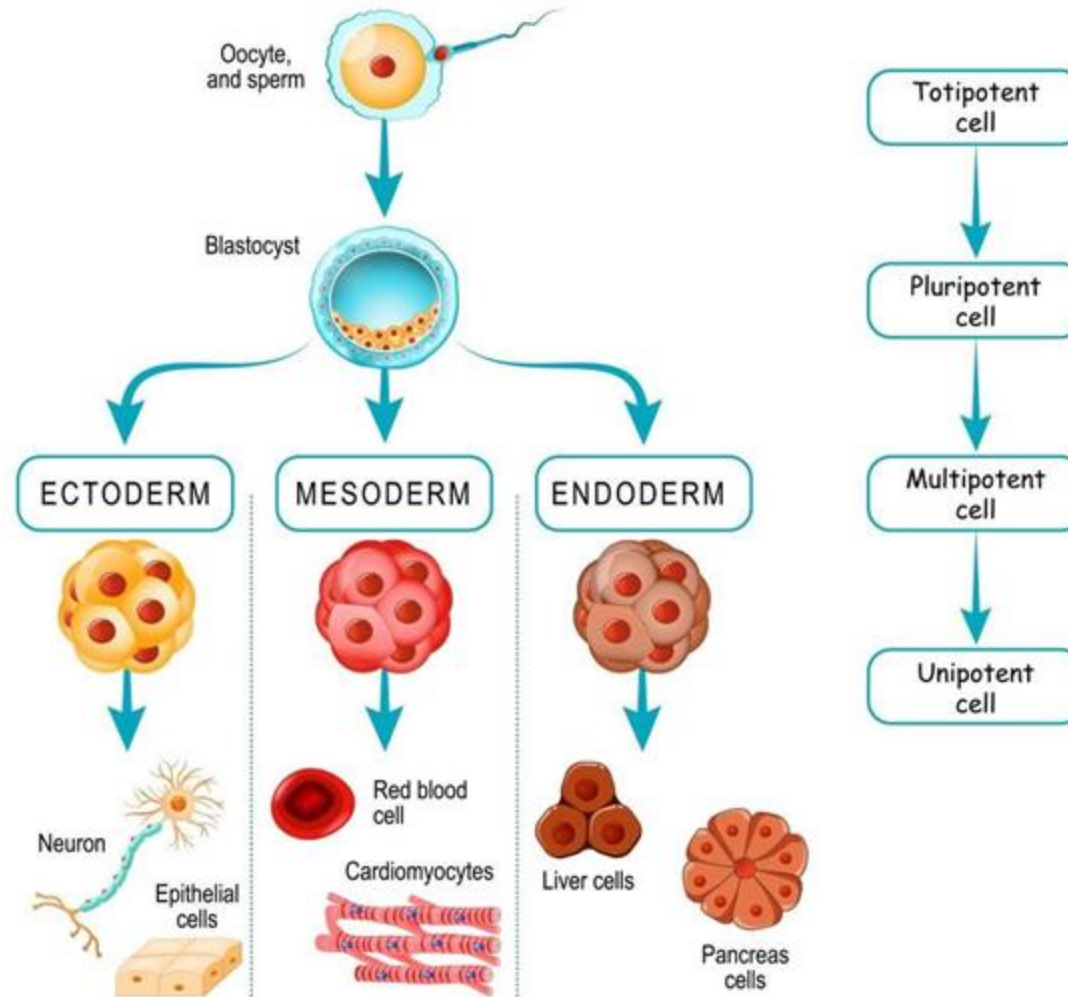
Instructions

- **Goal:** Be the first to recreate an exact replica of the play doh model stationed **outside the room**.
- **What you'll learn:** This activity will test your memory skills while also giving you an appreciation for how different organ systems are connected through their stem cell lineages.

Organ Odyssey – the Germ Layers



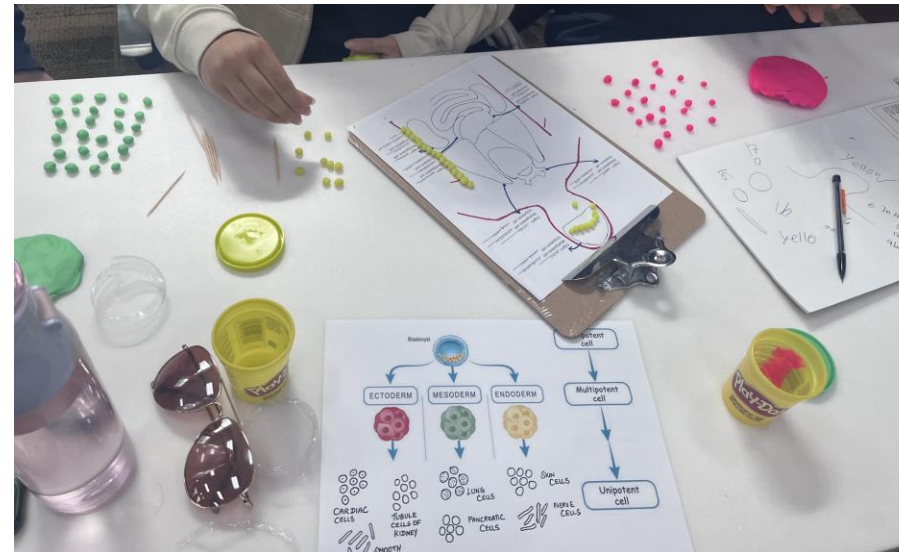
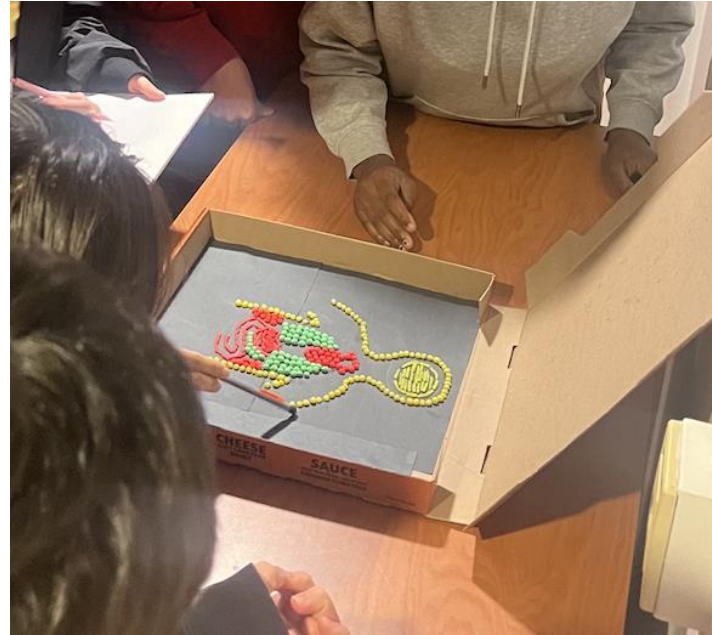
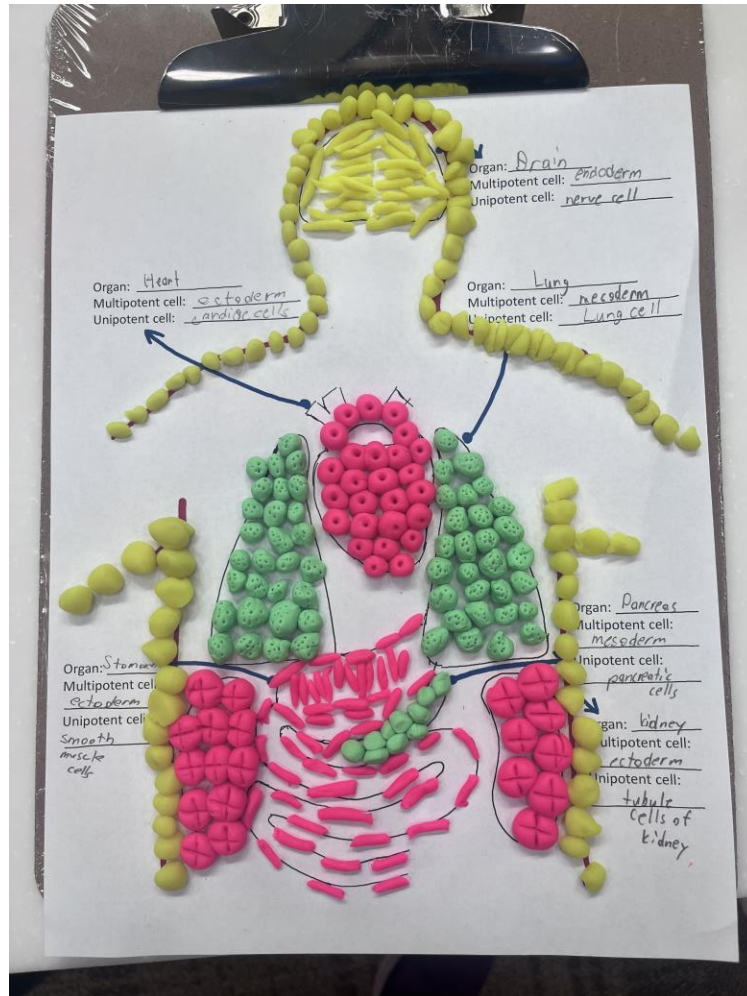
Organ Odyssey – the Germ Layers



Organ Odyssey – Rules!

1. No verbal communication or using phones (phones must be left face down at the end of your tables).
2. Only one member of your group may go look at the model at any given time.
3. Your replica must be *identical* to the model (i.e., colour, # cells per organ, arrangement of cells, texture, shape, etc).
4. First group to finish will win prizes.

Activity in Action!

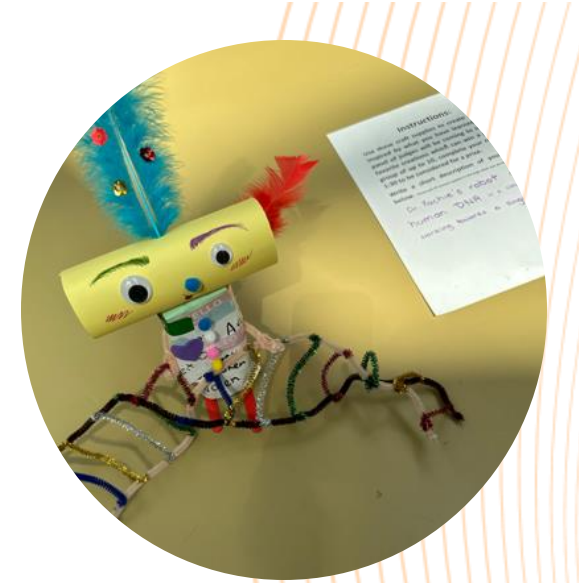


Science Art

Get Creative!

Instructions

- In your teams, use these craft supplies to create something inspired by what you have learned today!
- Teachers will be coming around to judge your creations, which can win a prize! Complete your creation by X:XX pm to be considered for a prize.
- Include a short description of your creation on the paper provided.



This or That?

Stem Cells Edition

Instructions

- The room is divided in half.
- You will move to either side dependent on which answer you choose.
- If you answer incorrectly, you must sit out.
- The game continues either to the end or to when one person remains.
- The winner(s) is/are announced!

Stem cell treatments are risk free if they come from your own body?



True



False

Scientists can create stem cells in the lab.



True



False

There are no proven stem cell treatments.



True



False

American scientists identified stem cells in 1961.



True



False

A pluripotent stem cell can

...



Divide and make
many types of cells



Divide and make only
one kind of
(specialized) cell



Embryonic stem cells can make babies.



True



False

Adult stem cells are found only in bone marrow.



True



False

Stem cell therapies have been used
in clinical trials to treat:



Burn wounds



Allergies

A multipotent stem cell can ...



...make several, but
not all types of cells.



... make any type of
cell in the body.

Which type of stem cell is found in umbilical cord blood?



Pluripotent stem cells



Hematopoietic
(blood) stem cells

Stem cells are found in most tissues in the body.



True



False

What is the name of the process used to produce large quantities of identical stem cells?



Cloning



Expansion

What is the primary use of hematopoietic stem cells?



Rebuilding the immune system after chemotherapy or radiation treatment



Generating replacement organs

What is a somatic stem cell?



A type of adult stem cell that can differentiate into various cell types within a specific tissue



A type of embryonic stem cell

Which is not a potential source of stem cells?



Skin



Strands of hair

Which of the following is the smaller risk with stem cell treatments?



Immune rejection



Cancer

What type of stem cell would be most likely to treat sickle cell anemia?



Hematopoietic stem cell



Pluripotent stem cells

Stem cell tourism involves ...



Traveling to another
country for an
experimental stem cell
therapy



Traveling to another
country for a clinically
proven stem cell therapy