EASTER BUSH SCIENCE OUTREACH CENTRE











Dolly, DNA & Me

Primary Workshop





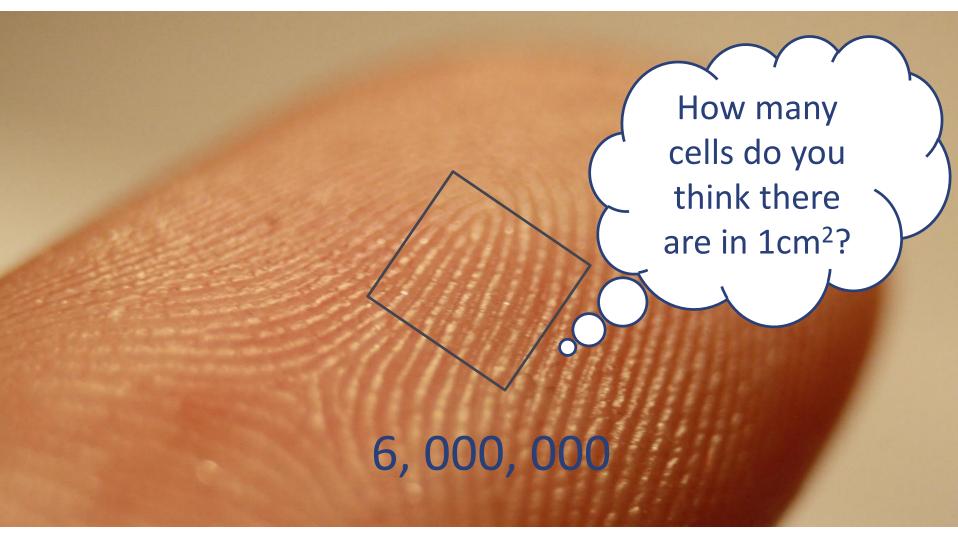
What all living things made of?







Cells are tiny!







What tool do you need to see cells?

Click for a clue!

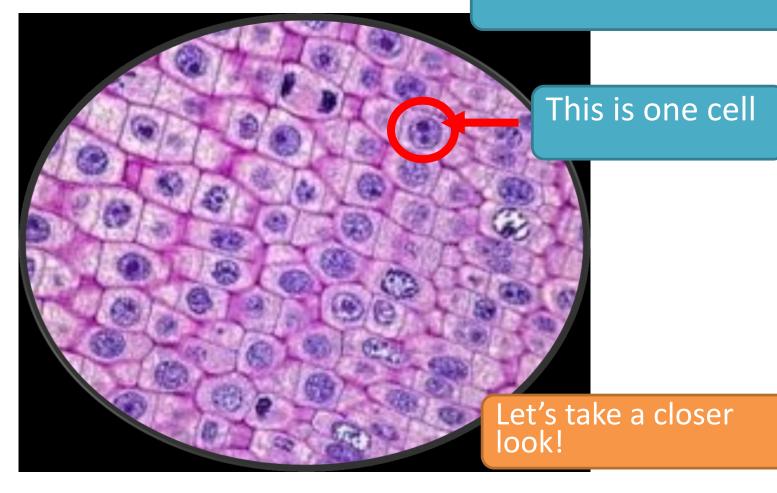






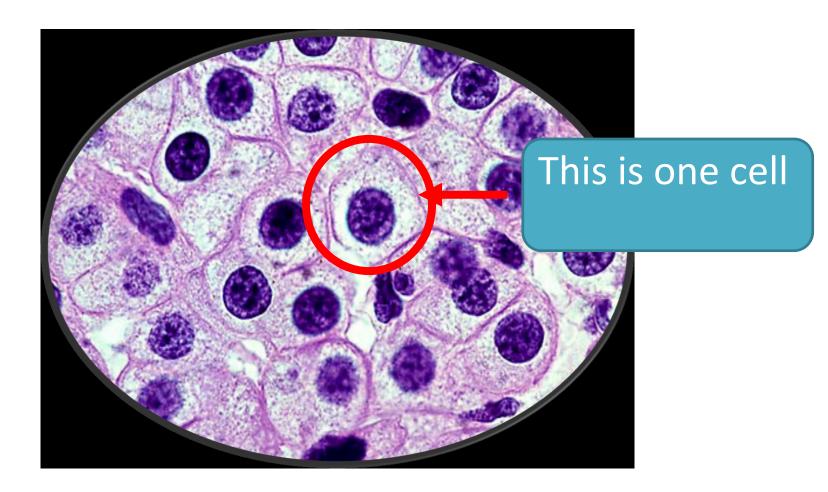
What is this?

These are cells!





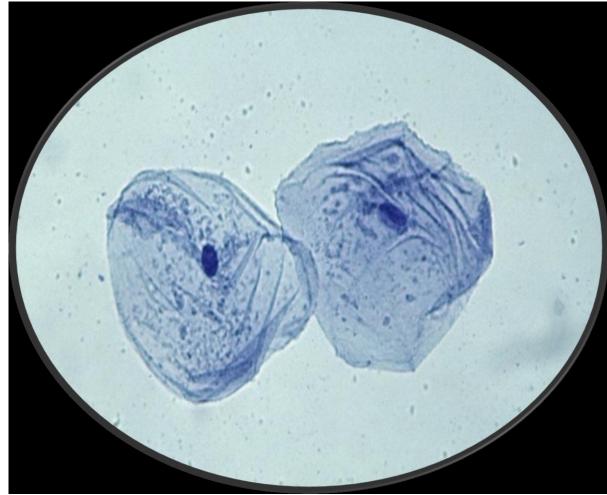








What can you see?







Do you know the parts of a cell?

Cell membrane

nucleus

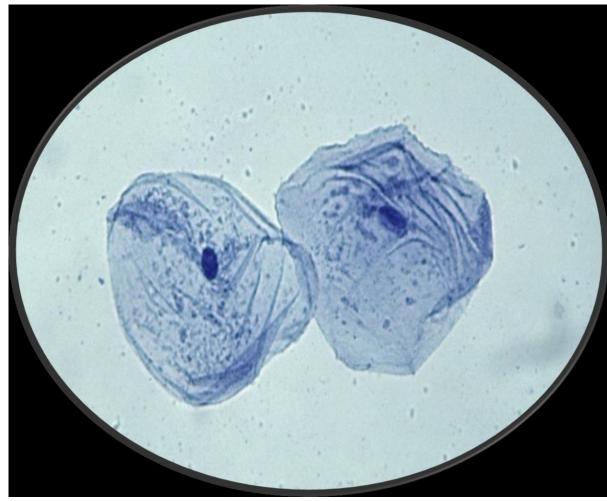
cytoplasm







Let's dissect our giant







How long is the DNA in the model cell?

2m

If we stretched out the 2m of DNA from all of your cells it would.....









Match the words and descriptions with the correct part of the cell



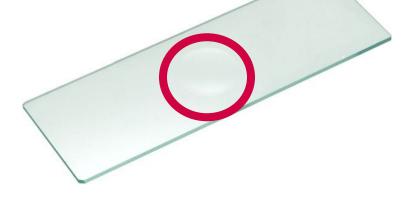


Look at your own cells



- 1) Put your lab number on the slide (pencil).
- 2) Take a swab and gently scrape the inside of your mouth.
 - he slides and coverslips are made of glass.

3) Roll the swab on the centre of the microscope slide, 2 or three times.



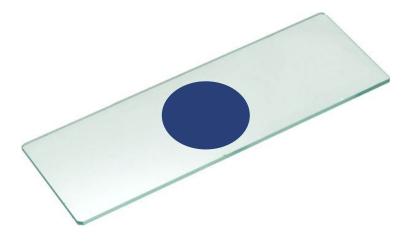




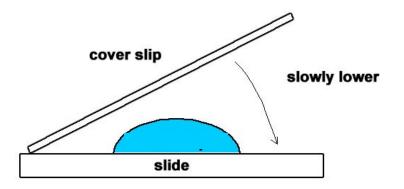
Look at your own cells

Coverslips are very fragile, be gentle and work slowly.

4) Add a drop of blue dye to the cells.



5) Lower a coverslip on top.

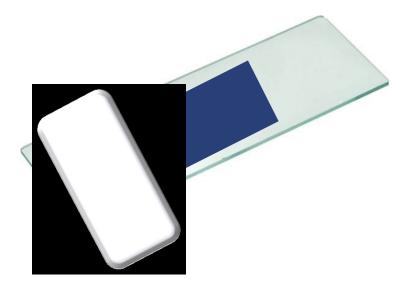






Look at your own cells

6) Place the tissue at the edge of the coverslip to soak up some of the dye.







Split into two groups

Microscopes



Cell Model

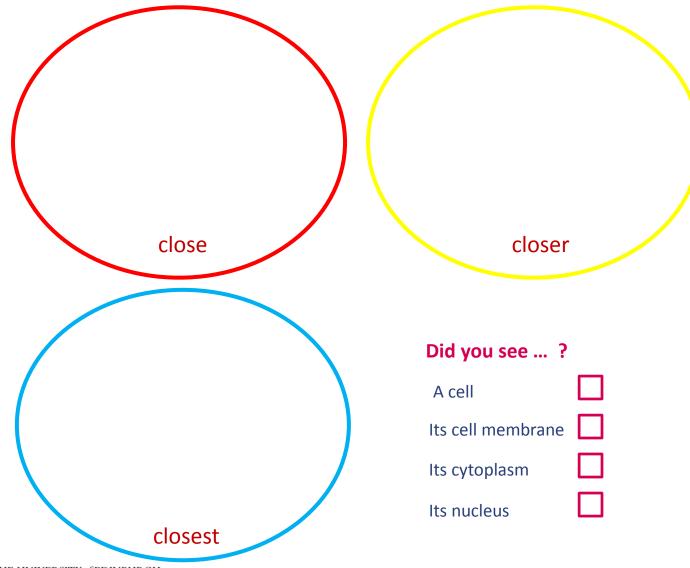






Draw what you see at each magnification









Make a Cell Model







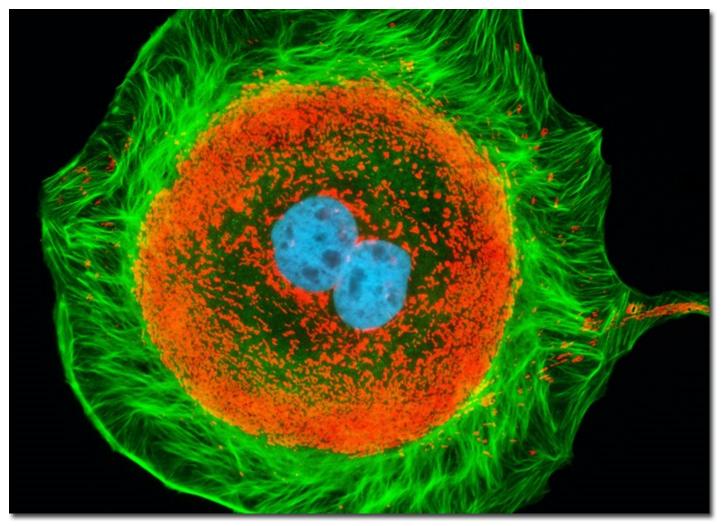
Some examples







Some real cells up very close!







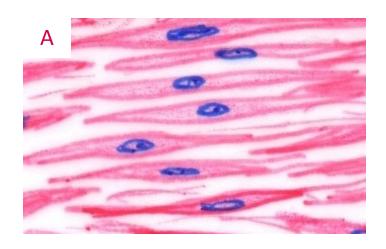
BREAK

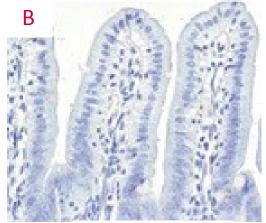


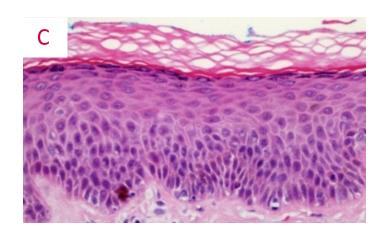


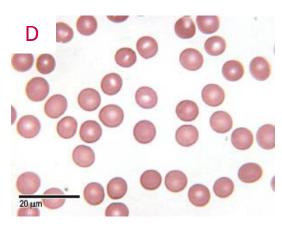
Where do you find these cells in your body?















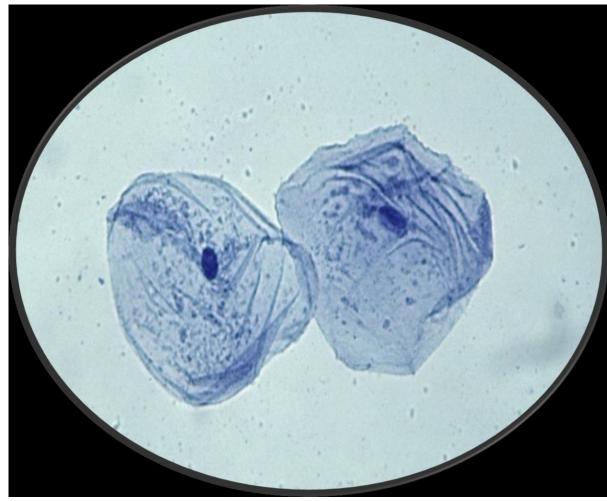
LUNCH







Where is the DNA?





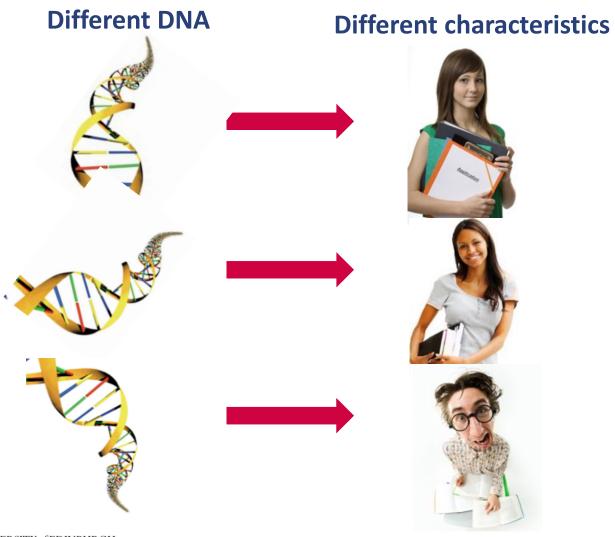


What does DNA do?



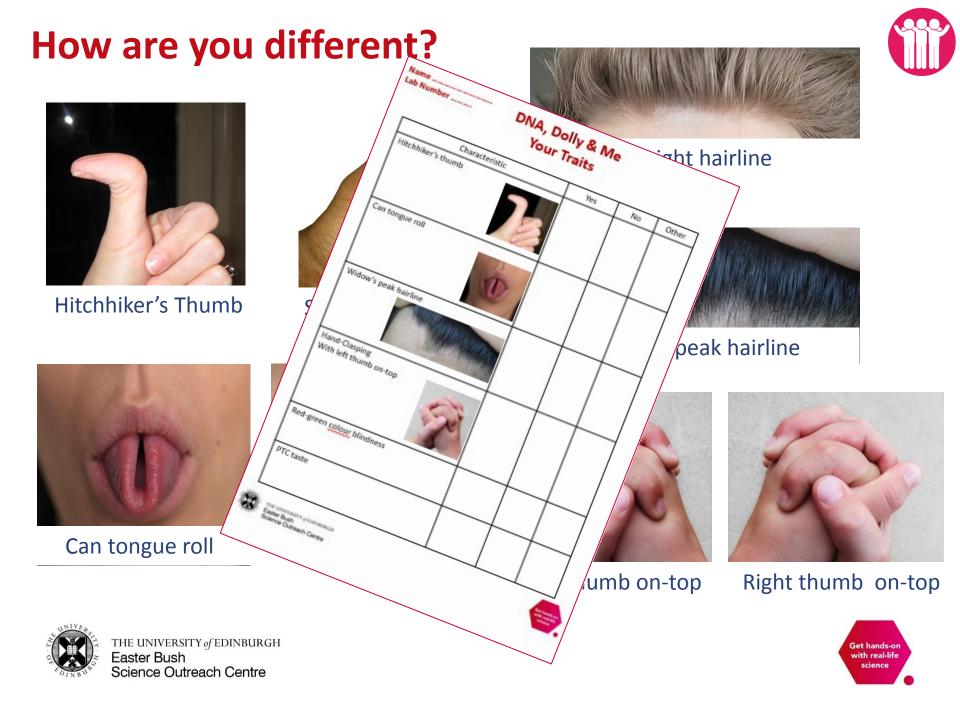


Why are we all different?



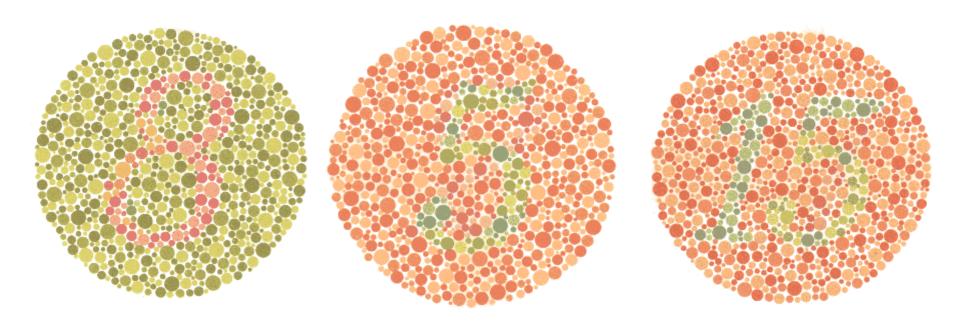








What hidden differences do you have?



Are you red-green colour blind?







What hidden differences do you have?



Can you taste it?















Weak taster



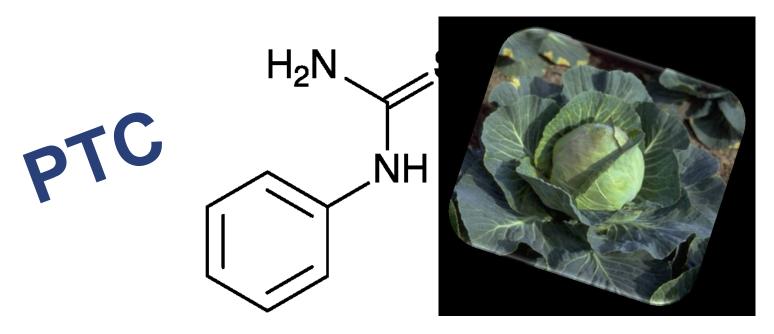
Non-taster

Write your result on your sheet





What are you tasting?



Phenylthiocarbamide

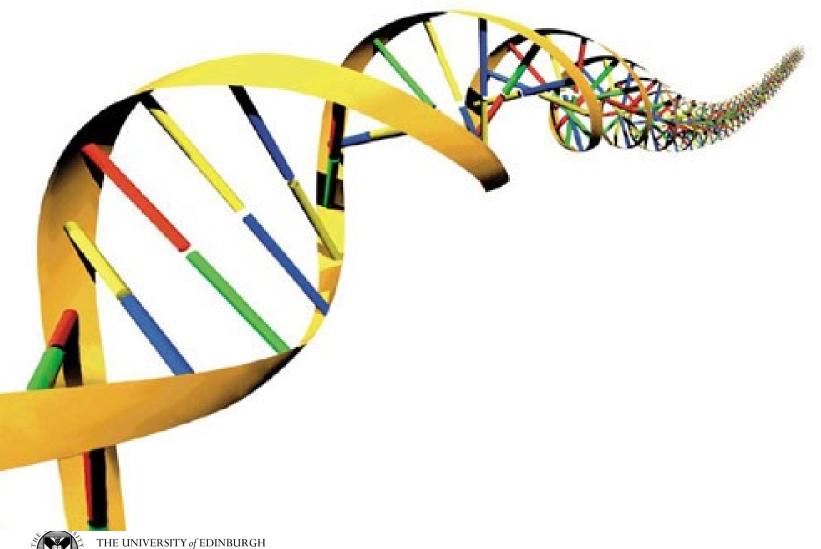




Why can only some of you taste it?

Easter Bush

Science Outreach Centre





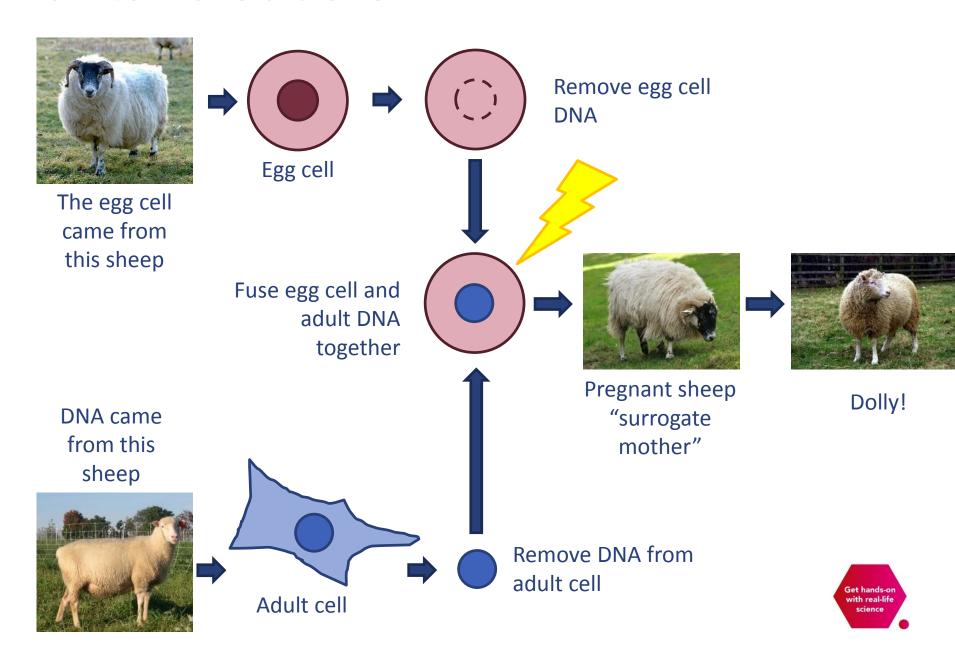
Where did Dolly's DNA come from?







How to make a clone



Dolly the Sheep



Get hands-on with real-life



Team Dolly















Dolly's characteristics: Are these characteristics







Boy 一男孩 Gislot 女孩 Apple — te 果 Hune Heat









Where did it all lead?



.

Who are these sheep?







Where does your DNA come from?









Where does the boy's red hair come from?





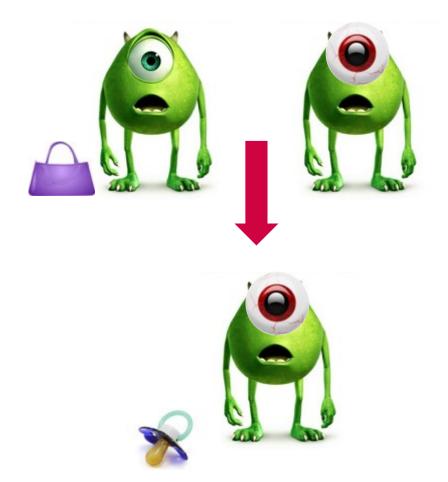
This is an example of an inherited characteristic!





Where did this baby monster get his brown eye

from?

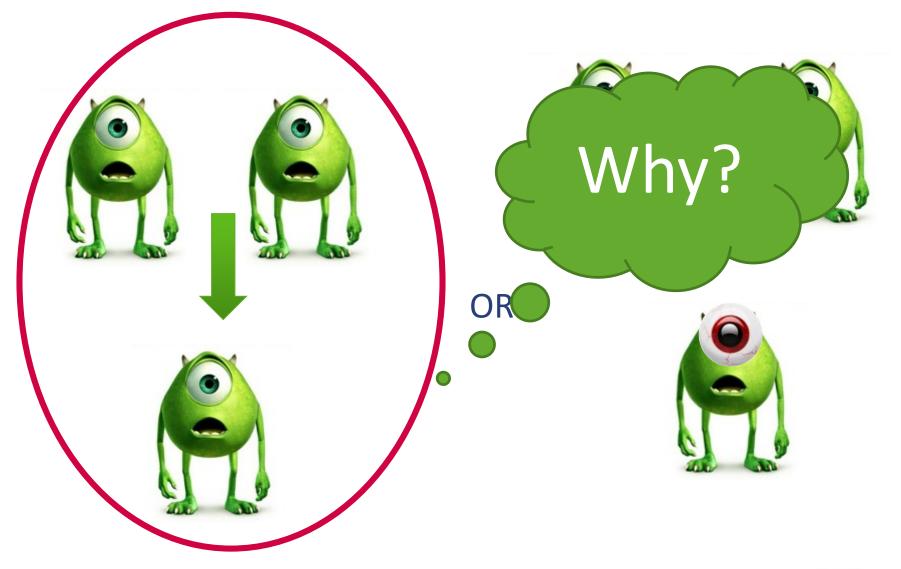


This is an example of an inherited characteristic!





Which is correct?

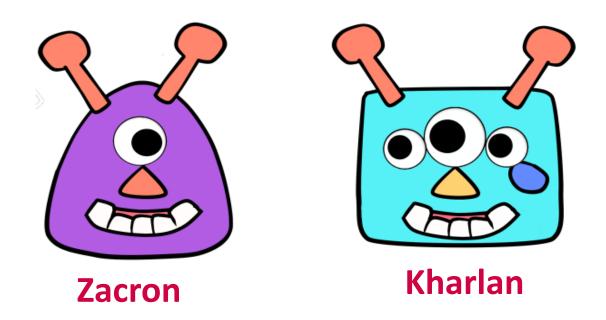








Alien Babies



Zacron and Kharlan want to have a baby together, they want to find out what their baby will look like and we're going to help them with that.











1) Flip a coin and circle the characteristics that Zarcon and Khrelan will pass to their baby.

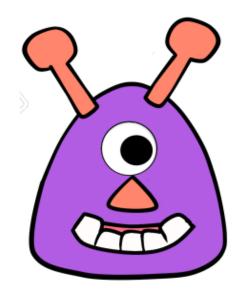
- 2) Make their baby!
- 3) Stick your alien baby on the wall.

	Heads	Tails
Skin Colour	<u></u>	
Face Shape		
Blue Spots	•	
Antenna	9 8	24
Eye Number	•••	•
Nose	△	△
Mouth		(





What could their babies look like?

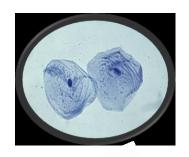








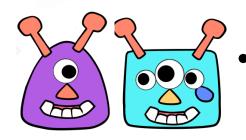
Summary of the day



 Learned the basic structure of animal cells and looked at your own cells.



 Looked at some of your own characteristics



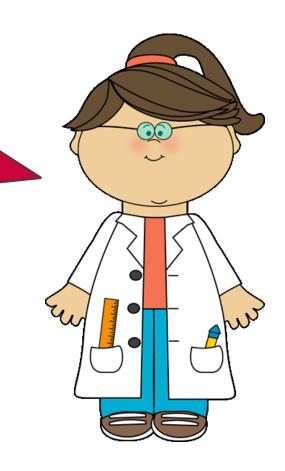
• Learned about what DNA does, how it is passed on to children and about the types of characteristics that can be inherited.





Feedback

Please write down three words on our wall that describe your experience today!







Fun

Boring

Informative

Inspiring

Rewarding

Uninteresting

Interesting

Confusing

Enjoyable

Difficult

Thought-provoking

Frustrating

Dull





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• fun • STEM