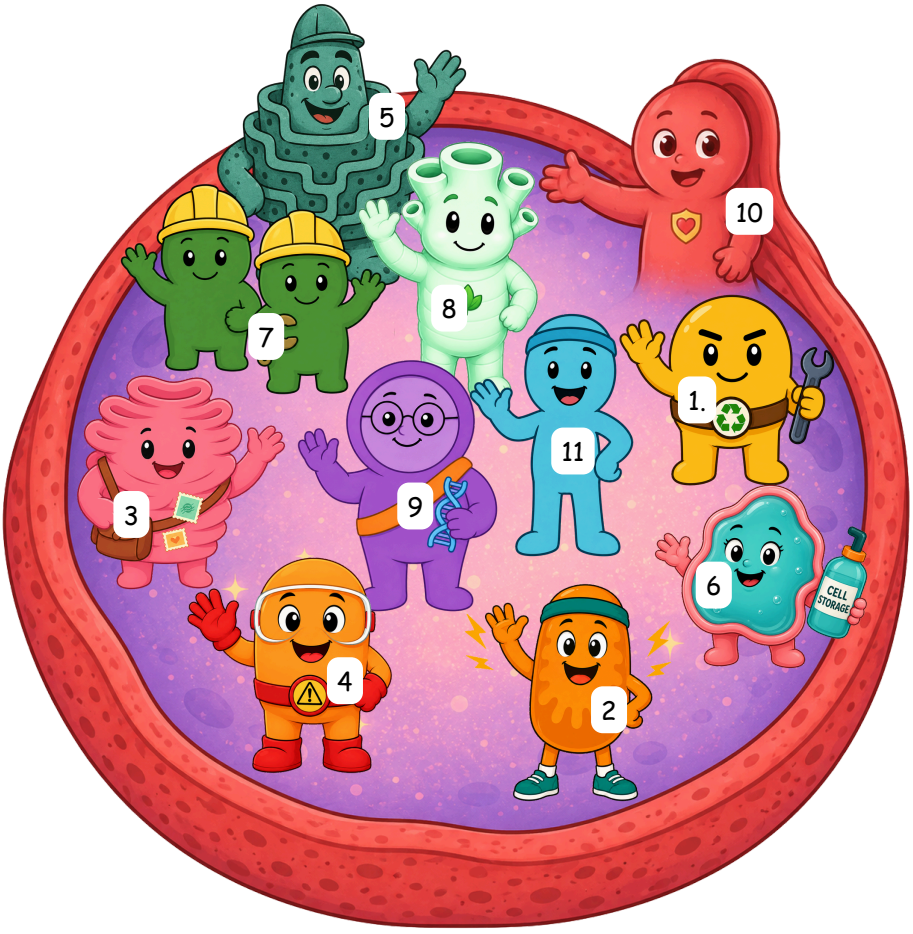
Label The Cellville Crew

ANSWER KEY

Each Cellville Organelle has a number. Match each number to the correct name below. Label the Animal Cell (Cellville).



Write the number of each Cellville Organelle next to the correct name and cell structure.

_10__ Mindy Membrane — Cell Membrane
_11__ Sammy Cytoplasm — Cytoplasm
_9__ Nora Nucleus — Nucleus
_7__ Ricky & Rudy Ribosomes — Ribosomes
_5__ Ernie Rough Endoplasmic Reticulum
_8__ Ellie Smooth Endoplasmic Reticulum
_3__ Gigi Golgi — Golgi Apparatus
_2__ Mike the Mighty Mitochondrion — Mitochondrion
_4__ Perry Peroxisome — Peroxisome
_6__ Vicky Vacuole — Vacuole

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NORA THE NUCLEUS — THE DNA KEEPER!

Help Nora do her job!

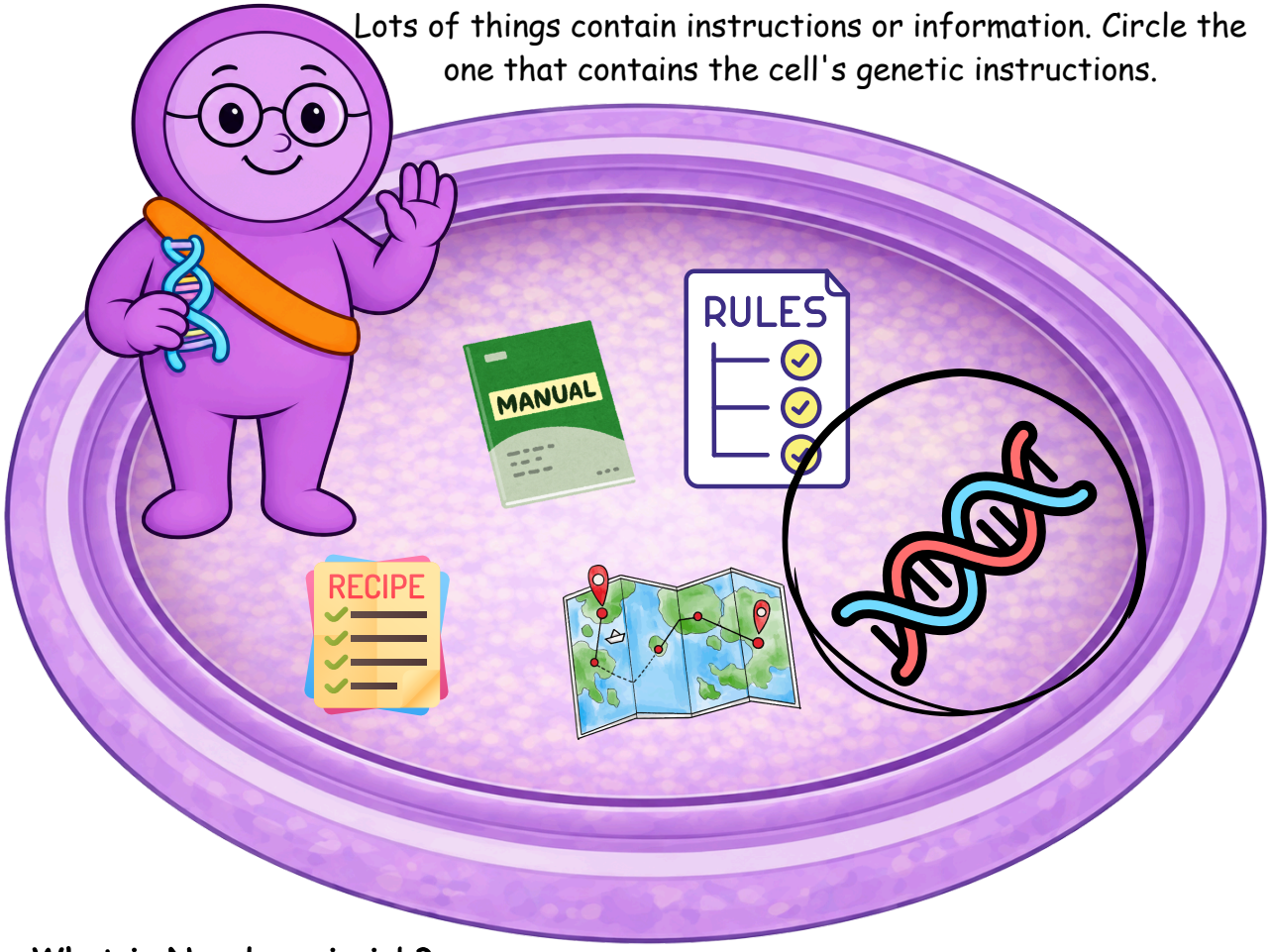
ANSWER KEY

Nora protects the cell's DNA. DNA holds the instructions the cell needs to do its jobs.

HELP NORA PROTECT THE INSTRUCTIONS!

DNA = INSTRUCTIONS

Lots of things contain instructions or information. Circle the one that contains the cell's genetic instructions.



What is Nora's main job?

- □ Make energy for the cell
- □ Protect the cell's DNA and genetic instructions
- ☒ Package and send proteins

NORA'S QUICK FACT

DNA contains genetic instructions that help tell the cell what to do.

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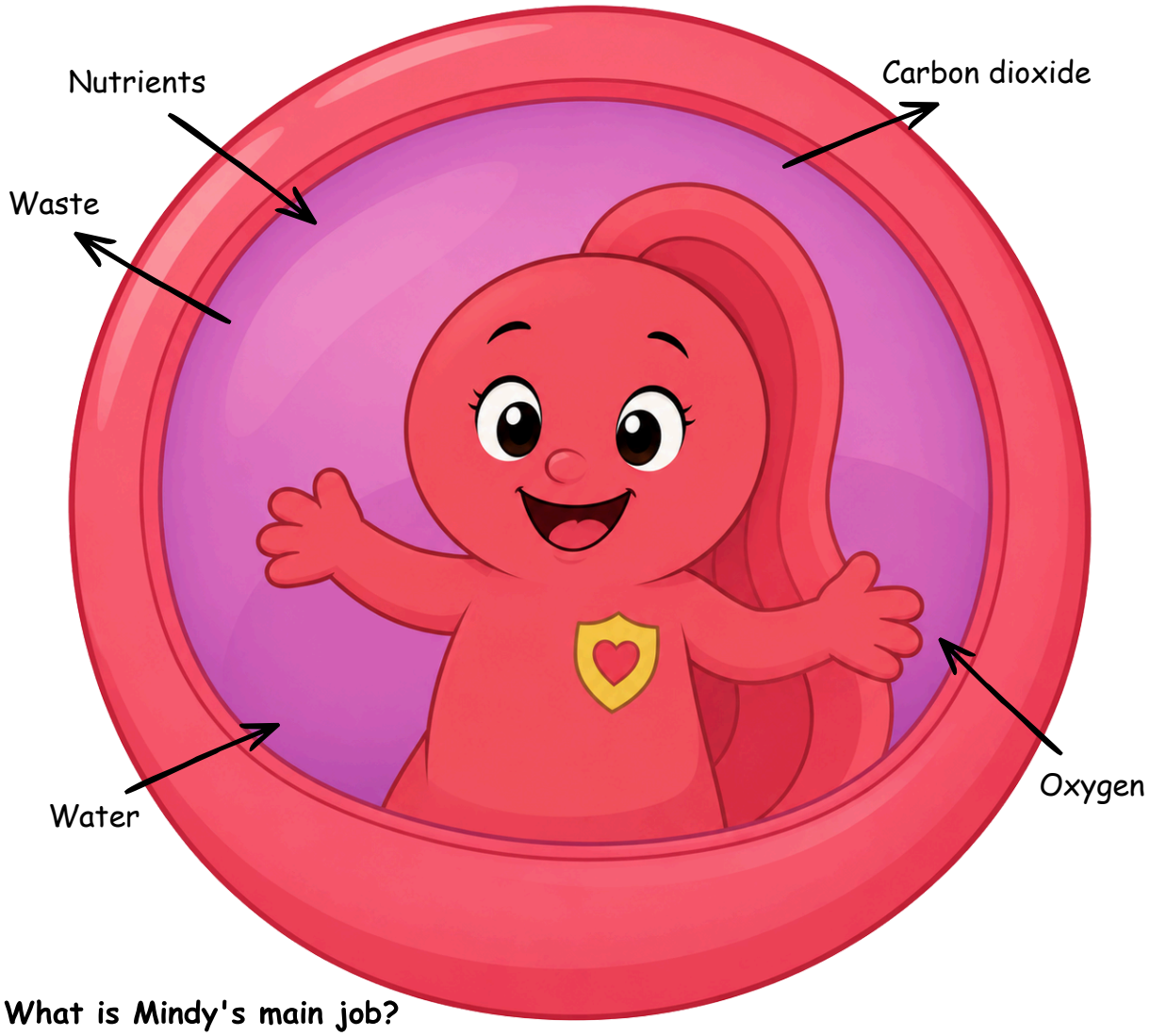
MINDY MEMBRANE — THE GATEKEEPER!

Help Mindy do her job!

ANSWER KEY

Mindy surrounds the cell and helps control what moves in and out.

Mindy helps control what moves into and out of the cell. Draw an arrow to show which way each item usually moves to help the cell do its jobs.



What is Mindy's main job?

- ☐ Make energy for the cell
- ☒ Help control what moves in and out of the cell
- ☐ Build proteins

MINDY'S QUICK FACT

The cell membrane forms a boundary around the cell.

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MIKE THE MIGHTY MITOCHONDRION — THE POWERHOUSE!

Help Mike make ATP!

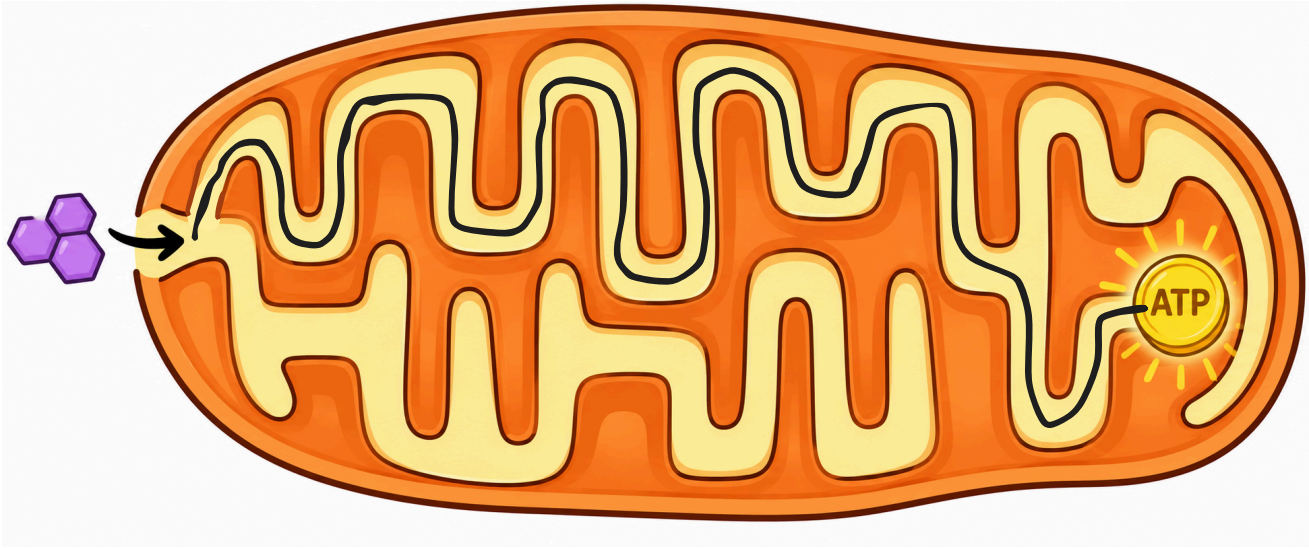
ANSWER KEY



Mike Mitochondrion helps make ATP, the usable energy that powers the cell.

HELP THE FUEL REACH THE ATP COIN!

Draw a line through the mitochondrion to help the fuel reach the ATP coin.



What is Mike's main job?

- □ Build proteins
- ☒ Make ATP for the cell
- □ Protect the cell's DNA

MIKE'S QUICK FACT

Mitochondria make most of the ATP cells use for energy.

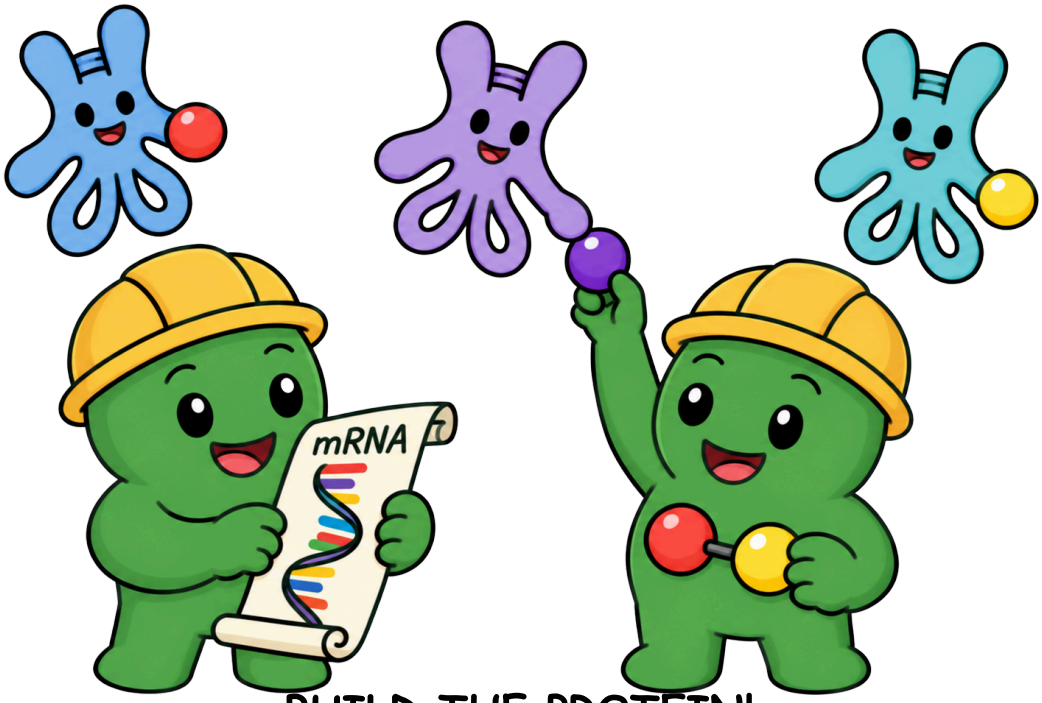
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RICKY & RUDY RIBOSOMES — THE PROTEIN BUILDERS!

Help Ricky & Rudy build a protein!

ANSWER KEY

Ricky & Rudy are ribosomes. They use instructions from mRNA to join amino acids in the right order and build proteins.



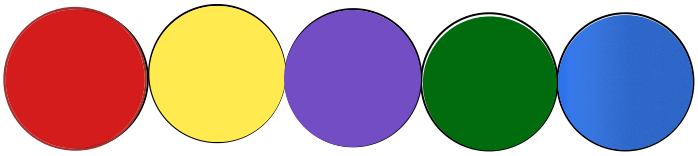
BUILD THE PROTEIN!

Ricky reads the mRNA instructions. Rudy uses the instructions to put the amino acids in the right order.

Each color below represents a different amino acid. Follow Ricky's instructions and color the protein chain!

RICKY'S INSTRUCTIONS

🔴 **Red** → 🟡 **Yellow** → 🟣 **Purple** → 🟢 **Green** → 🔵 **Blue**



What is Ricky & Rudy's main job?

- ☐ Store the cell's DNA
- ☐ Make energy for the cell
- ☒ Build proteins from amino acids

RICKY & RUDY'S QUICK FACT

Ribosomes join amino acids together in a specific order to build proteins.

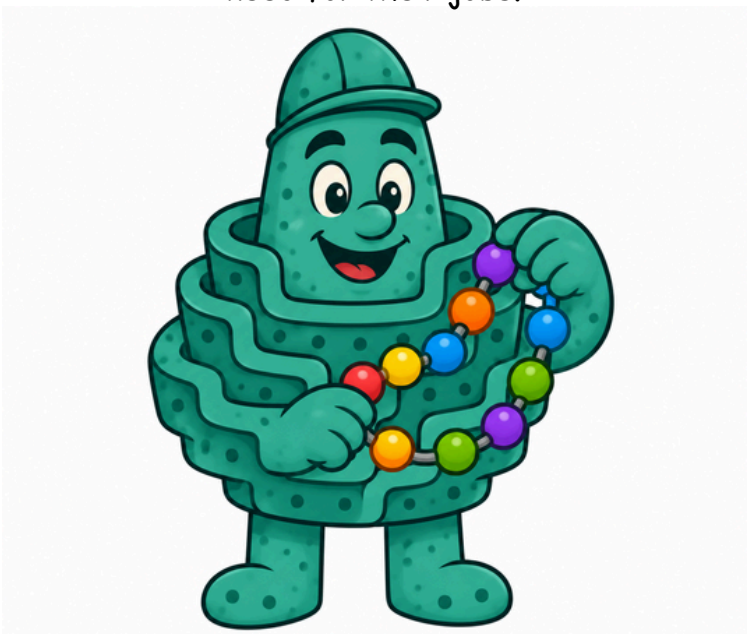
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ERNIE ROUGH ER — THE FOLDING FOREMAN!

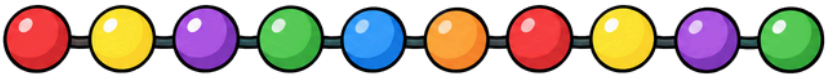
Help Ernie find the folded protein!

ANSWER KEY

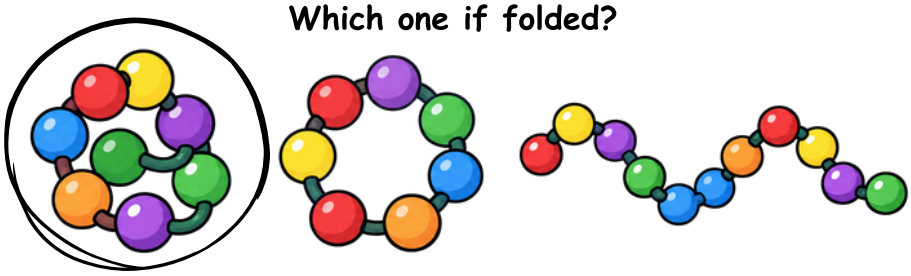
Ernie Rough ER has ribosomes on his surface. Proteins being made there enter Ernie, where they begin folding into the shapes they need for their jobs.



Proteins start as chains of amino acids. Help Ernie! Circle the protein that has folded into a compact shape.



Which one if folded?



What is Ernie's main job?

- □ Make energy for the cell
- ☒ Help make, fold, and process proteins
- □ Store the cell's DNA

ERNIE'S QUICK FACT

Rough ER has ribosomes attached to its surface.

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ELLIE SMOOTH ER — THE LIPID MAKER!

Help Ellie make lipids!

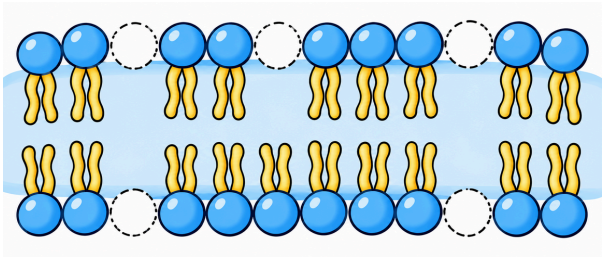
ANSWER KEY

Ellie Smooth ER helps make lipids for the cell. Lipids have important jobs in cells, including helping form cell membranes.

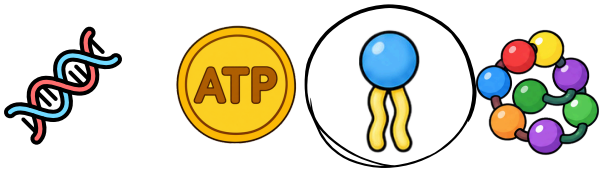


HELP ELLIE BUILD THE MEMBRANE!

Some lipids are missing from the membrane below.



Circle the lipid that could fill the missing spaces.



What is Ellie's main job?

- □ Build proteins
- ☒ Make lipids for the cell
- □ Protect the cell's DNA

ELLIE'S QUICK FACT

Lipids are important building parts of cell membranes.

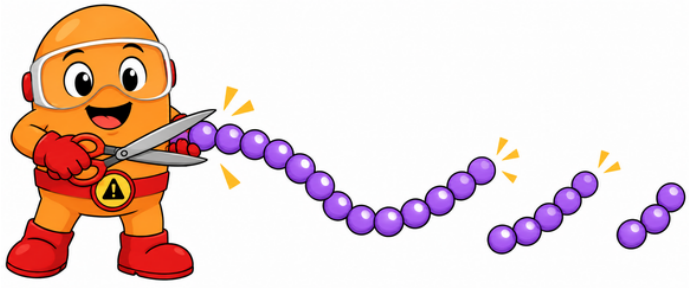
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PERRY PEROXISOME — THE HAZMAT EXPERT!

Help Perry protect the cell!

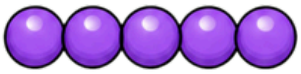
ANSWER KEY

Perry Peroxisome uses special enzymes to break down certain fats and harmful substances inside the cell.

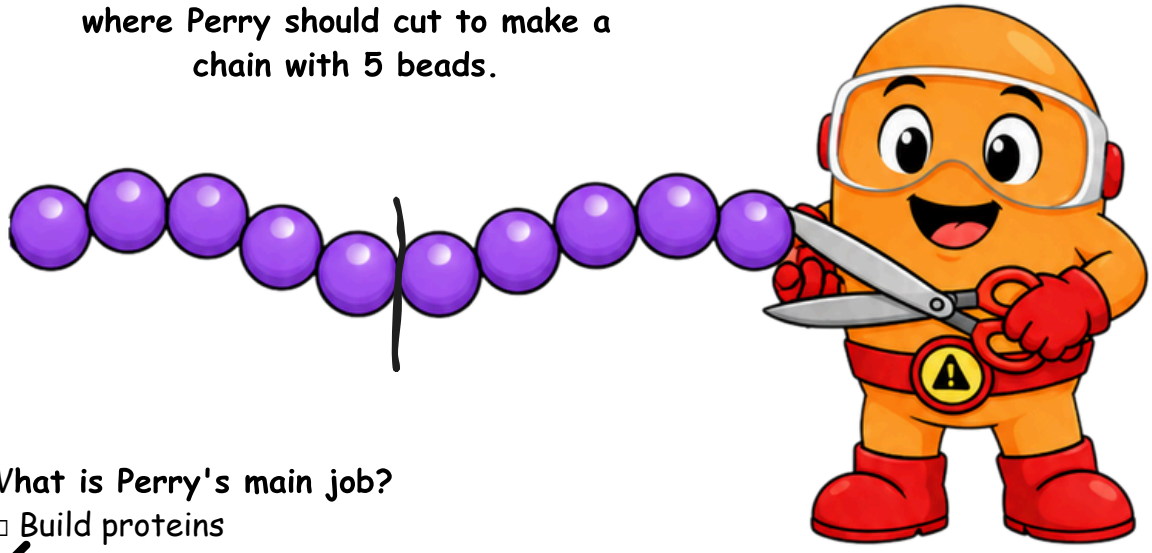


HELP PERRY SHORTEN THE FAT!

Perry helps shorten very-long-chain fatty acids.



Count the beads and draw a line where Perry should cut to make a chain with 5 beads.



What is Perry's main job?

- □ Build proteins
- ☒ Help break down certain fats and harmful substances
- □ Protect the cell's DNA

PERRY'S QUICK FACT

Peroxisomes help break down very-long-chain fatty acids.

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GIGI GOLGI APPARATUS — THE PACKAGE PACKER!

Help Gigi pack and send!

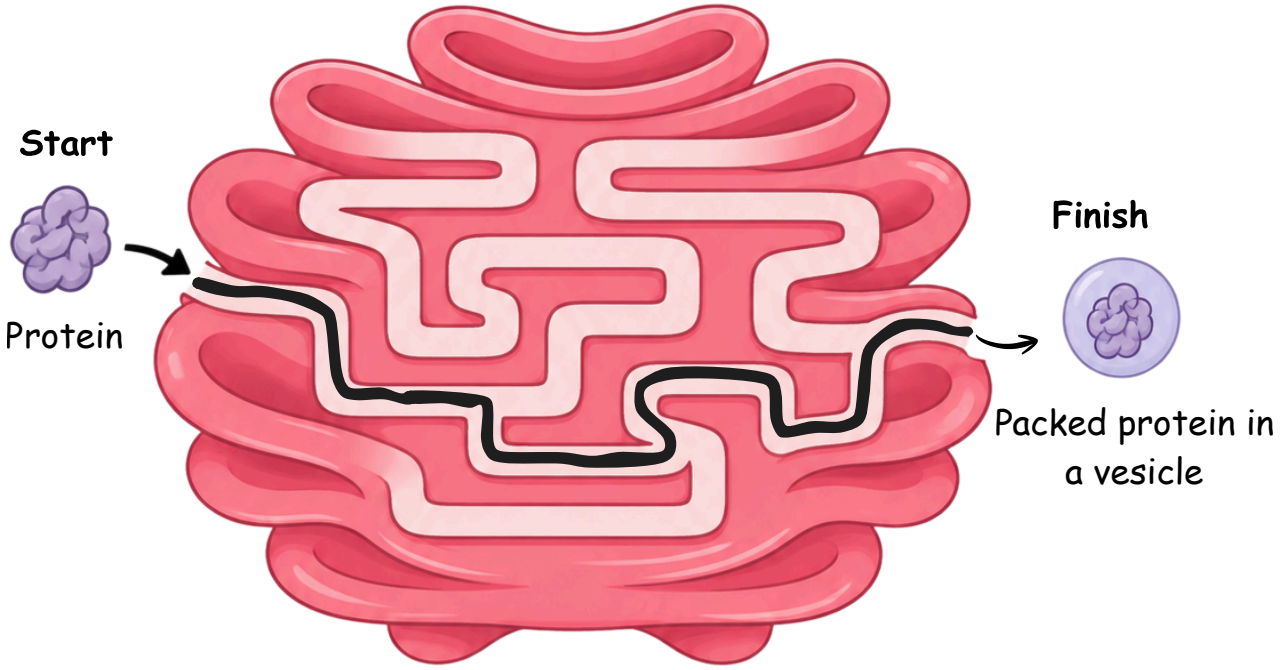
ANSWER KEY



Gigi Golgi helps sort, package, and send proteins where they need to go.

HELP GIGI GET THE PROTEIN TO THE PACKAGE!

Draw a line through Gigi to help the protein get to the package.



What is Gigi's main job?

- ☐ Make energy for the cell
- ☒ Sort, package, and send proteins
- ☐ Protect the cell's DNA

GIGI'S QUICK FACT

The Golgi apparatus sorts and packages proteins to help send them where they need to go.

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LENNY LYSOSOME — THE RECYCLER!

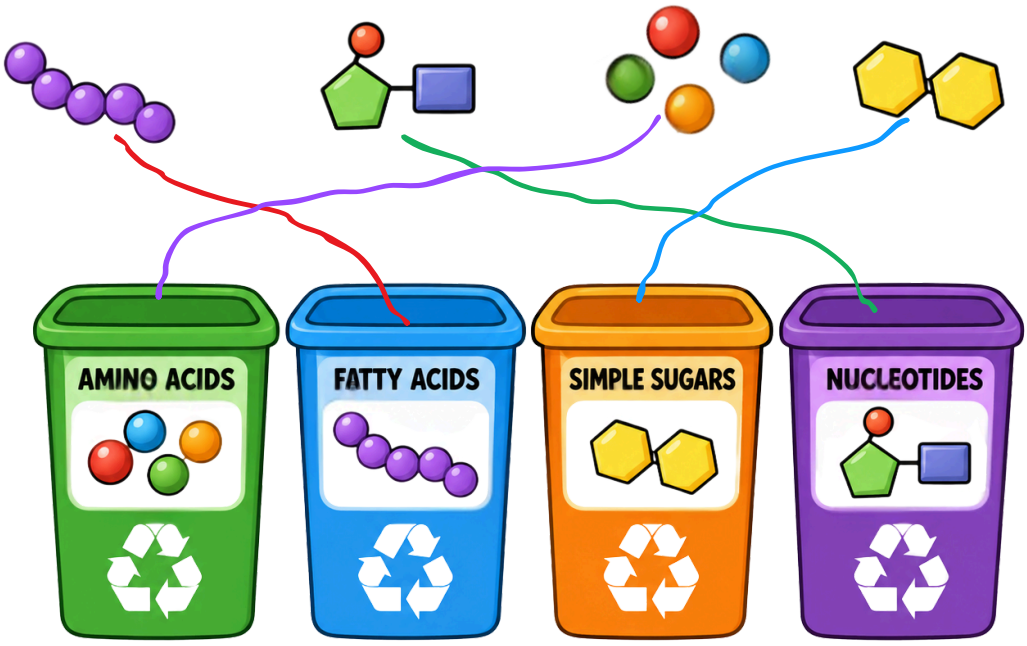
Help Lenny recycle!

Vicky Vacuole brings worn-out cell material to Lenny. Lenny uses special enzymes to break it down so the cell can reuse some of the pieces.

HELP LENNY SORT THE RECYCLED PIECES!



Draw a line from each piece to the recycling bin where it belongs.



What is Lenny's main job?

- □ Make ATP for the cell
- □ Break down and recycle worn-out cell parts and materials
- ☒ Protect the cell's DNA

LENNY'S QUICK FACT

Lysosomes use special enzymes to break down materials the cell can reuse.

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SAMMY CYTOPLASM — THE FLOW MASTER!

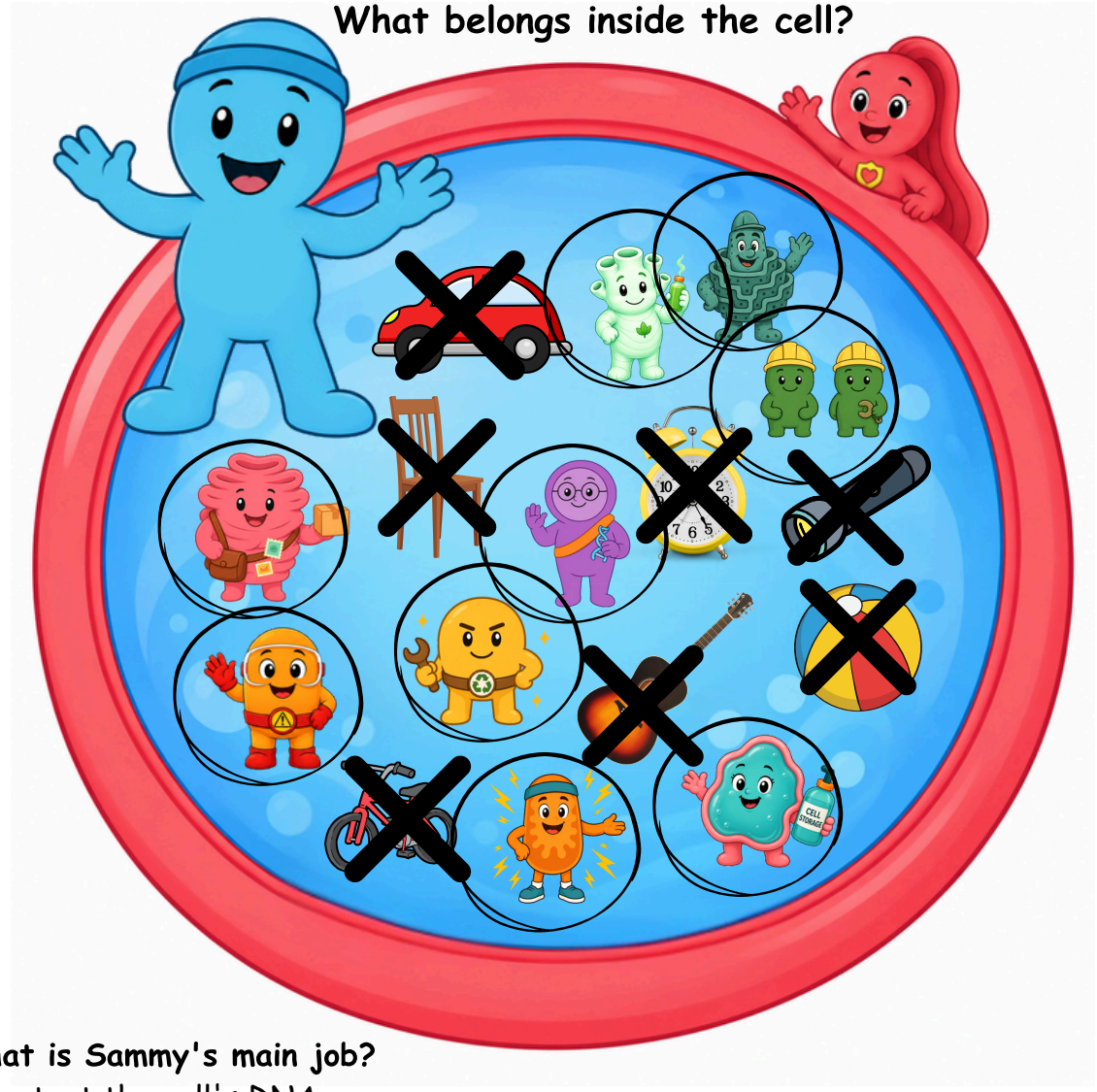
Help Sammy do his job!

ANSWER KEY

Sammy fills the space inside the cell around the organelles. He helps materials move through the cell.

Circle the things you would find inside Sammy's cytoplasm. Put an X on the things that don't belong inside a cell.

What belongs inside the cell?



What is Sammy's main job?

- ☐ Protect the cell's DNA
- ☒ Fill the inside of the cell and help materials move through it
- ☐ Build proteins

SAMMY'S QUICK FACT

Cytoplasm is the jelly-like material that fills the space around the organelles.

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VICKY VACUOLE — THE STORAGE EXPERT!

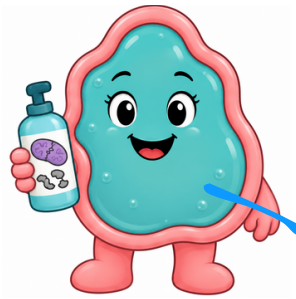
HELP VICKY CONTAIN THE MATERIAL!

ANSWER KEY

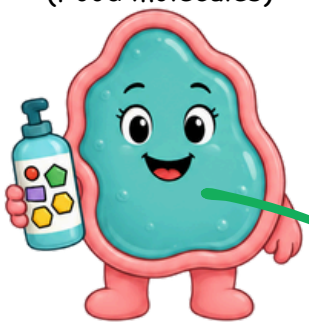
Vicky Vacuole can hold materials inside her membrane. She can hold nutrients, worn-out cell material, and germs. Worn-out material and germs can be brought to Lenny to be broken down.

Draw each item inside the Vicky that should hold it.

Worn-out cell material



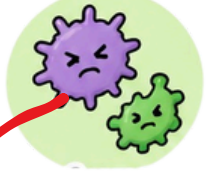
Nutrients
(Food molecules)



Germs
(Bacteria or viruses)



Germs
(Bacteria or viruses)



Worn-out cell material



Nutrients
(Food molecules)



What is Vicky's main job?

- ☐ Make ATP for the cell
- ☒ Hold and carry materials inside the cell
- ☐ Build proteins

VICKY'S QUICK FACT

Vacuoles can hold materials inside the cell and carry worn-out material and germs to lysosomes for breakdown.

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