

Cell vs Virus

You can find the clip on Ted Ed here: <https://www.youtube.com/watch?v=oqGujhOeMek>

Answers below!

- 1) What surrounds every cell in the body?
- 2) What word means to 'let some things in but block others'?
- 3) Cell membranes are covered with tiny projections. What roles do they have?
 - Helping cells
 - to nutrients a cell won't need
- 4) What type of chemical attacks virus cells?
- 5) What are antibodies?
- 6) DNA is the that tells our bodies how to make the things we need to function.
- 7) What does a ribosome do?
- 8) What helps antibodies to leave cells?
- 9) What do mitochondria do?
- 10) Human cells combine oxygen and to make water molecules. That process also creates a high energy molecule called
- 11) What do plants process combine to make energy?
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- 12) How many cells are estimated to be in the human body?

Answers

- 1) What surrounds every cell in the body? **cell membrane**
- 2) What word means to 'let some things in but block others'? **semipermeable**
- 3) Cell membranes are covered with tiny projections. What roles do they have?
 - Helping cells **adhere to neighbours**
 - **Binding** to nutrients a cell won't need
- 4) What type of chemical attacks virus cells? **enzymes**
- 5) What are antibodies? **proteins that attack viruses**
- 6) DNA is the **blueprint** that tells our bodies how to make the things we need to function.
- 7) What does a ribosome do? **create antibodies**
- 8) What helps antibodies to leave cells? **Golgi apparatus**
- 9) What do mitochondria do? **make energy**
- 10) Human cells combine oxygen and **electrons from food** to make water molecules.
That process also creates a high energy molecule called **ATP**
- 11) What do plants process combine to make energy?
 - **carbon dioxide**
 - **water**
- 12) How many cells are estimated to be in the human body?
37 trillion / 37,000,000,000,000