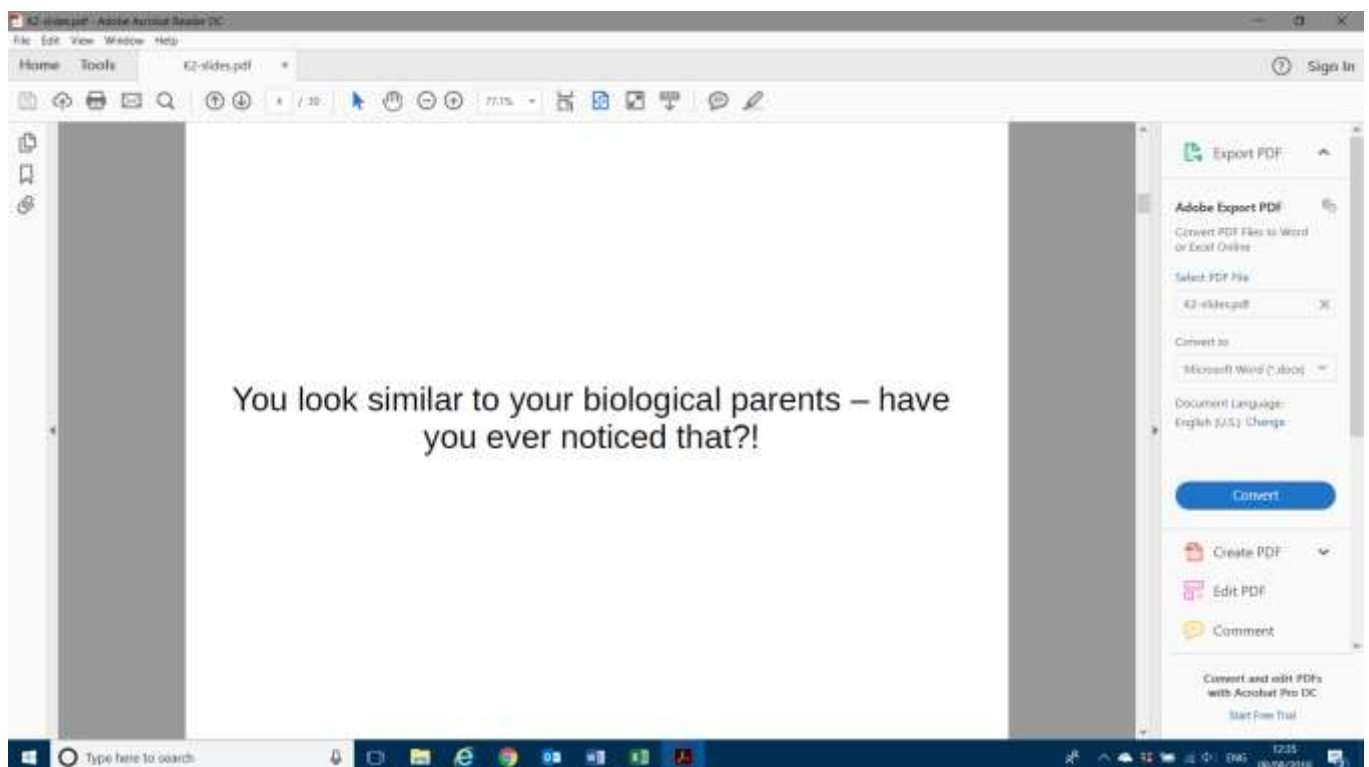
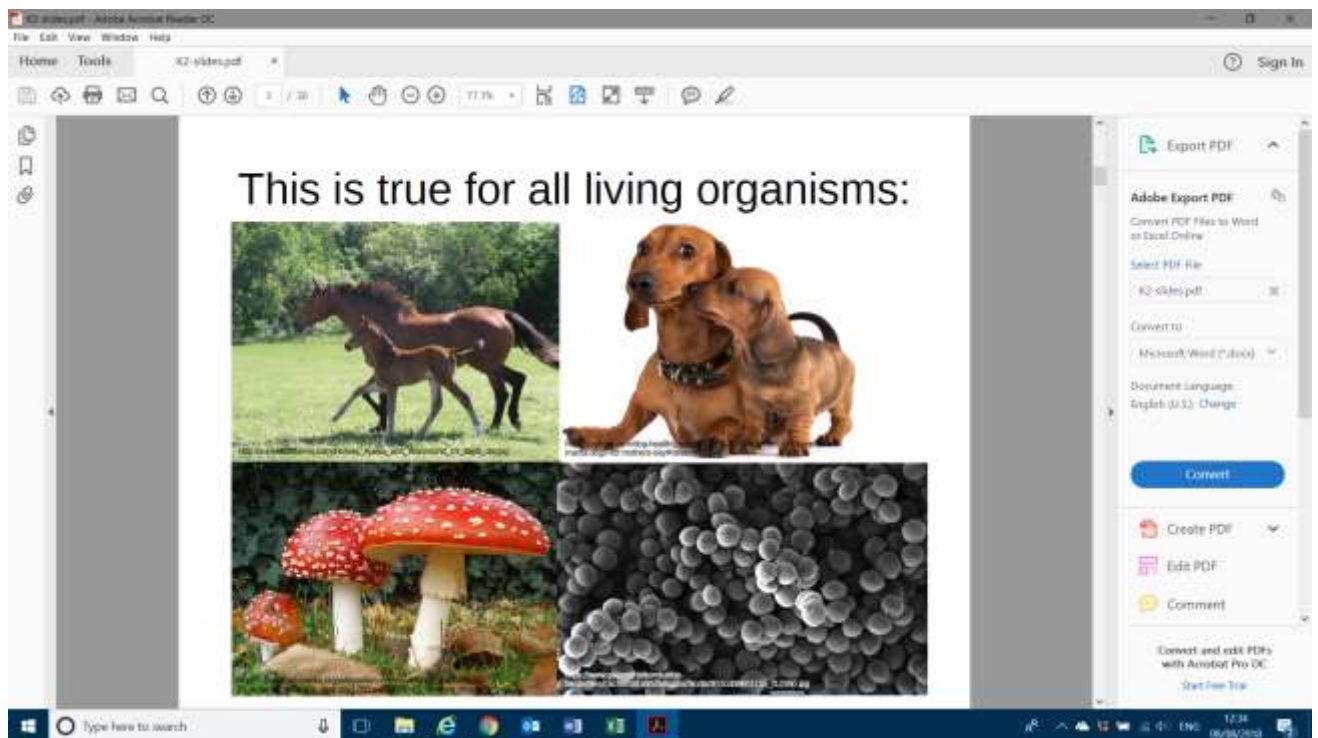


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What traits do YOU share with your mother and father?



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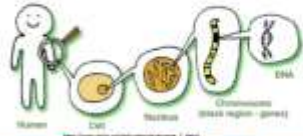
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“DNA and genes” is the answer to most of the biological question!

- We all are “made” of millions of cells
- Each cell has many compartments and most of them have nucleus
- In nucleus there is specific substance called DNA – **d**eoxyribo**n**ucleic **A**cid
- DNA forms genes
- Genes are responsible for your appearance.



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From cell to DNA

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What is a nucleotide?

- Nucleotide is building block of the DNA
- There are 4 types of nucleotides in DNA named: adenine, thymine, cytosine and guanine
- In DNA nucleotides always come in pairs: A is always paired with T and G is in pair with C.

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Important terms

- **DNA** – double stranded molecule that is made of nucleotides
- **Gene** - the functional and physical unit of heredity passed from parent to offspring. Genes are sequences of nucleotides.
- **Genome** – all genes (and DNA) that is present in the cell
- **Locus (loci)** – location on a chromosome or any region of genomic DNA that is considered to be a discrete genetic unit

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How does DNA look?

5' 3'

3' 5'

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