

7th grade Notes Week 30 Day2

Genetic Material: DNA

Cells divide

Cell division is

controlled by DNA

DNA is located in the

NUCLEUS of most

cells

Genetic Material: DNA

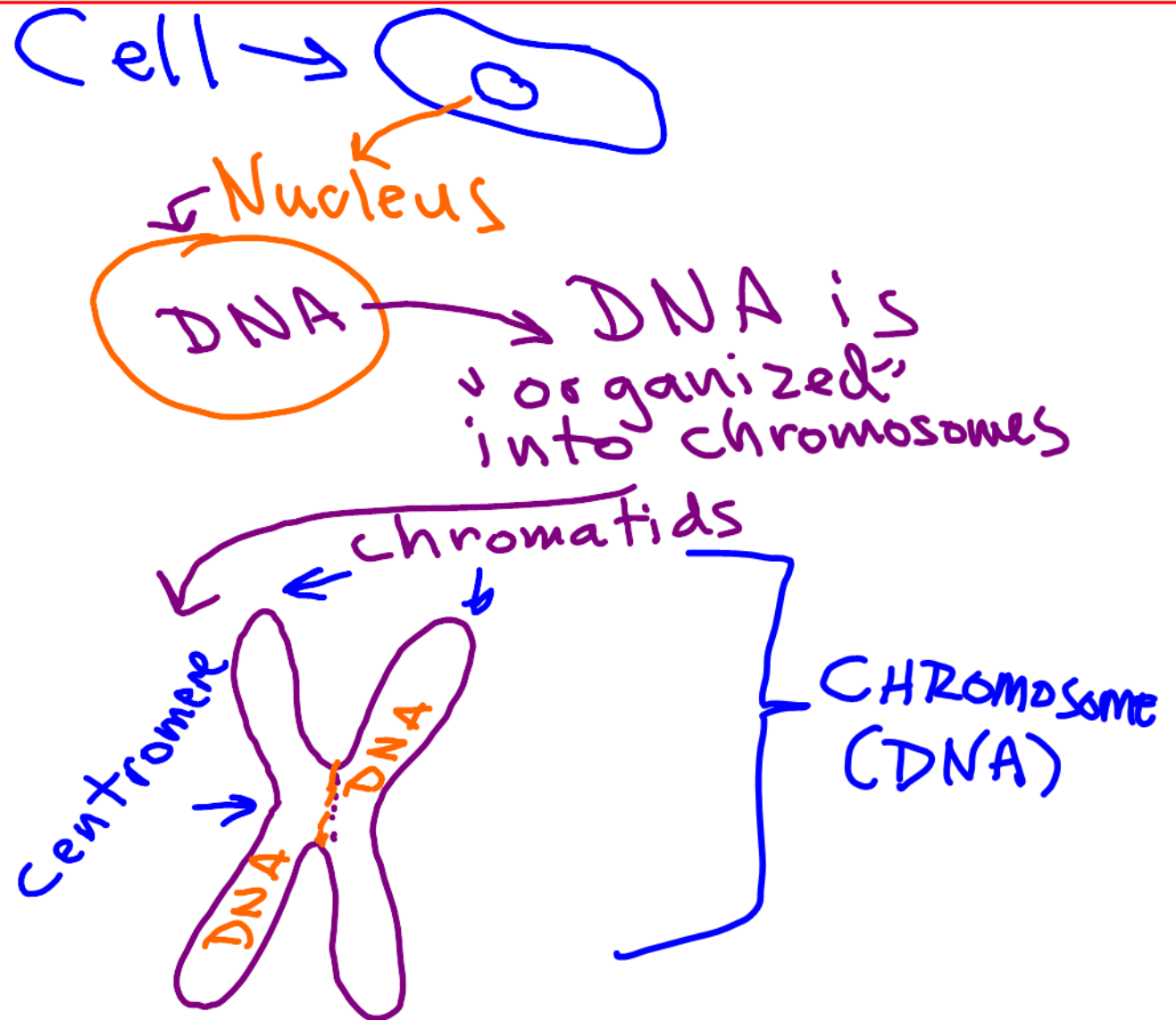
DNA is a compound that holds a “recipe” to make an individual organism.

Example: the DNA in your cells has the recipe to make another “you”

Genetic Material: DNA

- **The DNA is grouped into CHROMOSOMES**
- **A chromosome contains part of the DNA**
- **Different living things have different numbers of chromosomes**
- **Humans have 23 pairs; total = 46**
- **Chimpanzees have 24 pairs; total = 48**

Genetic Material: DNA



C-notes

Types of Reproduction: Sexual

- **Type of reproduction that requires DNA to be exchanged/combined between two individuals of the species.**
- **Most multicellular organisms reproduce this way**

C-notes

Types of Reproduction: Asexual

- **Simplest form of reproduction**
- **ALL UNICELLULAR organisms use this form**
- **Your individual cells use this type of reproduction**
- ****Requires only ONE cell**

C-notes

Types of Reproduction: Asexual

Forms of Asexual Reproduction

1. Binary Fission- cell divides, then splits off (offspring)
2. Budding (multicellular) organism grows a “bud” that becomes a whole organism.
3. Regeneration (multicellular) organism grows a whole body part

C-notes

Types of Reproduction: Asexual vs. Sexual

Same:

- **Both forms of reproduction**
- **Both produce offspring**

C-notes

Types of Reproduction: Asexual vs. Sexual

Different:

- A- requires only one cell
- S- requires two cells
- S- has “parents”
- A- unicellular
- S- multicellular
- **S- has DNA from both parents
- **A- produces offspring that are **IDENTICAL** to the “parent”