



Glue this side into your notebook.



REPRODUCTION

- CHECKLIST KEY**
- I could teach this.
 - I somewhat get it.
 - I've heard of it.
 - I need to learn this.

THE THINGS I SHOULD KNOW BEFORE 8th GRADE:

- All living things (organisms) are made from cells.
- Organisms inherit many traits from parents.
- Cells come from other pre-existing cells (Modern Cell Theory).
- Cells and their organelles perform specific functions, and many cells are different across kingdoms.
- Cells divide to result in more cells through mitosis.
- Living things are organized from cells to tissues to organs to organ systems to organisms.

THE MOST BASIC IDEAS TO KNOW AFTER THE UNIT:

- Organisms pass on genetic information through reproduction.
- Every organism on Earth comes from a long line of ancestors who reproduced successfully every generation.
- Reproduction can be the mixing of genes from two individuals or one individual to the next generation.
- DNA is the genetic code that is passed down from parent to offspring.
- There are advantages and disadvantages to the survival of a species due to both asexual and sexual reproduction.

I KNOW...	
a.	<input type="checkbox"/> that reproduction is necessary for life to continue
b.	<input type="checkbox"/> how mitosis and meiosis relate to cells, including the number of cells at the end and if the chromosomes at the end are the same as the parent cell or different and how <input type="checkbox"/> how mitosis and meiosis relate to sexual and asexual reproduction <input type="checkbox"/> that meiosis itself isn't sexual reproduction but that it produces gametes necessary for sexual reproduction
c.	<input type="checkbox"/> understand the mechanisms of and predict the end results of <u>asexual reproduction</u> compared to the parents <input type="checkbox"/> understand the mechanisms of and predict the end results of <u>sexual reproduction</u> compared to the parents <input type="checkbox"/> the advantages and disadvantages for an organism's survival from both asexual and sexual reproduction

I CAN...	
a.	<input type="checkbox"/> connect reproduction to evolution and genetics
b.	<input type="checkbox"/> identify if mitosis or meiosis have been done based on the resulting cells at the end <input type="checkbox"/> predict the end results of the daughter cells for mitosis and meiosis
c.	<input type="checkbox"/> predict the end results of <u>asexual reproduction</u> compared to the parents <input type="checkbox"/> predict the end results of <u>sexual reproduction</u> compared to the parents <input type="checkbox"/> analyze and compare characteristics passed on from parent to offspring through sexual and asexual reproduction

VOCABULARY

<input type="checkbox"/> reproduction	<input type="checkbox"/> genetics	<input type="checkbox"/> egg
<input type="checkbox"/> asexual reproduction	<input type="checkbox"/> gene	<input type="checkbox"/> mitosis
<input type="checkbox"/> sexual reproduction	<input type="checkbox"/> trait	<input type="checkbox"/> meiosis
<input type="checkbox"/> parent	<input type="checkbox"/> sex cells/gametes	<input type="checkbox"/> parent cell
<input type="checkbox"/> offspring	<input type="checkbox"/> sperm	<input type="checkbox"/> daughter cell