

8th Grade: Human Reproduction

Objective: Students will be able to explain menstruation, the fertilization process and implantation.

Warm-up:

Please answer the following questions

1. Where does fertilization take place?
2. How many sperm are needed to fertilized an egg cell?
3. Where does ejaculation occur from?
4. The are that stores the ova and hormones is called.
5. The mixture of sperm and fluid is called.



Phases of the Menstrual Cycle

Day 1-7 = Menstruation

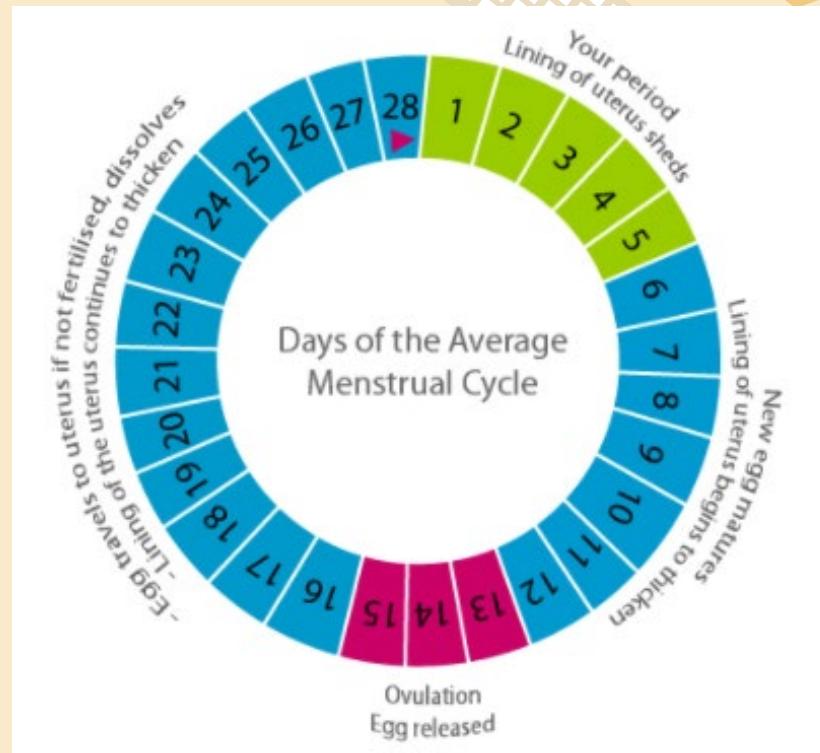
What is Menstruation?

Day 7-14= Ovulation

How is Ovulation defined?

Day 14-28= Building/Repairing of the Uterine Wall

Why does this take place?



Kids Health- The Menstrual Cycle



Fertilization Flow Chart

Vagina

Ovary

Lining

Sperm

Uterus

Fertilized

Ovulation

Hormones

Pregnancy

Fallopian Tube

Egg matures in the _____

Ovary

Egg is released during _____

Ovulation

Egg is swept into the _____

Fallopian Tube

Egg is fertilized by _____

Sperm

Egg is not fertilized.

_____ tells the uterus to maintain its thickened lining

Egg breaks down and moves to the _____

Uterus

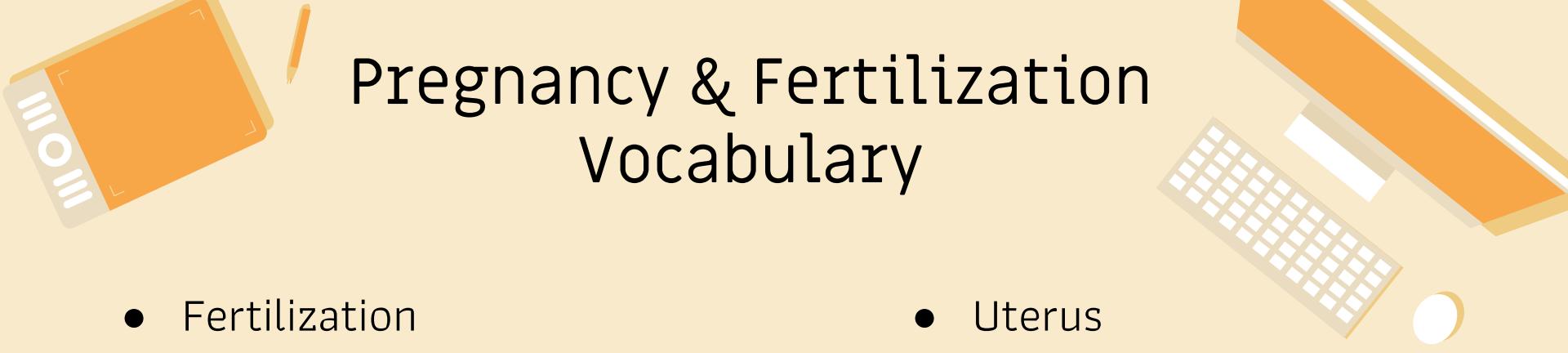
The _____ egg moves from the fallopian tube into the uterus

The _____ of the uterus breaks down

_____ has occurred

Fluid passes out of the _____ during menstruation.

Vagina



Pregnancy & Fertilization Vocabulary

- Fertilization
- Embryo
- Ultrasound
- Obstetrician
- Prenatal Care
- Uterus
- Placenta
- Umbilical Cord
- Birth Defects
- Fetus

Use the word bank to help you match each term with the correct definition

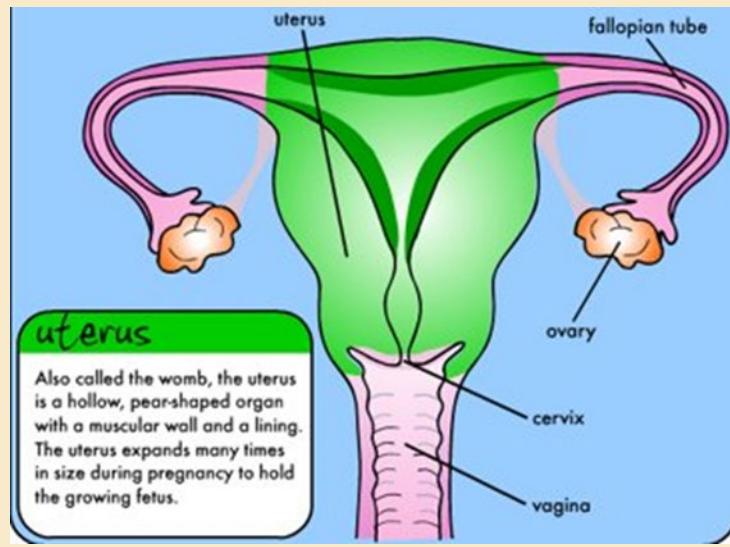
Fertilization

- The joining together of a male sperm cell and a female egg cell to form one cell
- Takes place in the mother's reproductive system.
- Fertilization takes place in the Fallopian Tube within 3-4 days of the ovulation



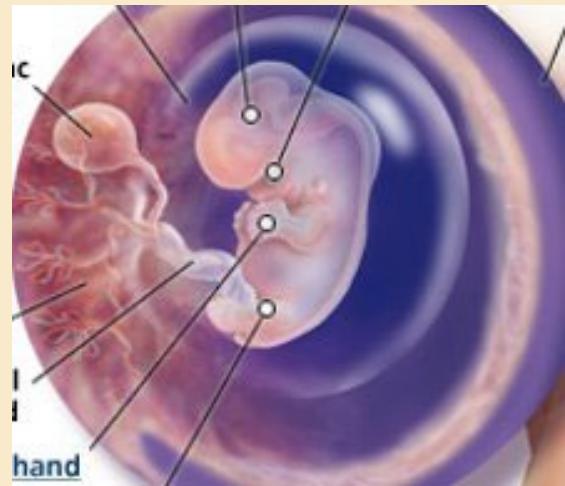
Uterus

Pear-shaped organ
inside a female's body
where the embryo is
protected & nourished.



Embryo

- The developing organism from fertilization to about the eighth week of its development.
- Attaches to the wall of the uterus.



Fetus

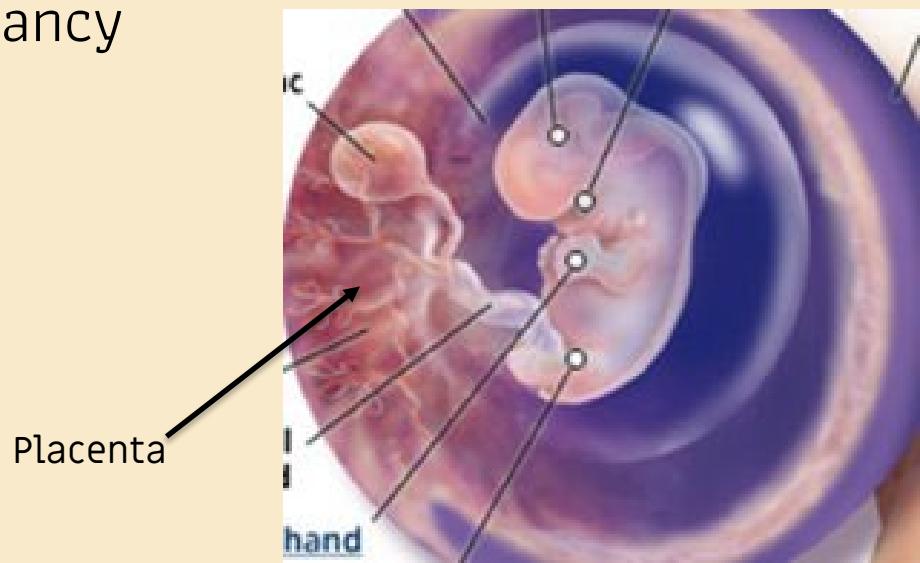
- The developing organism from the end of the eighth week until birth.
- The fetus will develop for nine months.

Fetal Growth From 8 to 40 Weeks



Placenta

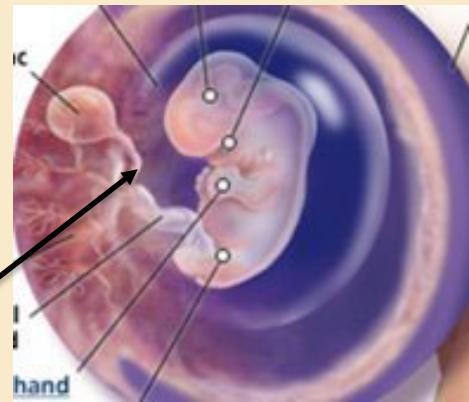
- A thick, rich tissue that lines the walls of the uterus during pregnancy and that nourishes the fetus.



Umbilical Cord

- A tube that connects the mother's placenta to the fetus.
- Carries away the wastes produced by the growing fetus.
- Substances such as tobacco, alcohol, and other drugs do harm the baby through the umbilical cord and placenta.
- Everything that the mother ingests is passed through the umbilical cord and placenta.

Umbilical Cord



Prenatal Care

- Steps taken to provide for the health of a pregnant female and her baby.
- Eating healthy foods
- Participating in moderate exercise
- Getting plenty of rest
- Avoiding alcohol, tobacco, and other drugs
- Talking to a doctor or other health care provider before taking any medicines.



Obstetrician

- Doctor who specializes in the care of a pregnant female and their unborn child.

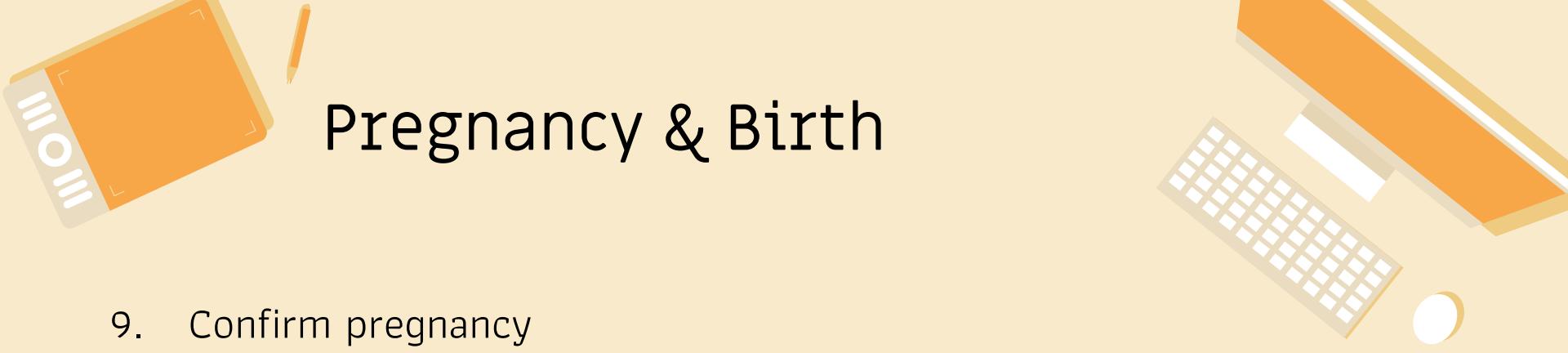


Birth Defects

- Abnormalities present at birth that cause physical or mental disabilities or death.
- Genetic Disorders:
 - Cerebral Palsy
 - Down Syndrome
- **Environmental Factors that cause birth defects:**
 - Poor nutrition
 - Infections
 - Sexually Transmitted Infections
 - Medicine and other drugs

Pregnancy & Birth

1. Decision to have a child
2. Males' erect penis inserted into female's vagina
3. Ejaculation: Sperm entering vagina
4. Sperm swim up vagina
5. Some sperm meet ovum in fallopian tube [If ovulation occurred]
6. One sperm enters ovum's outer membrane [fertilization]
7. Fertilized egg [zygote] travels to uterus
8. Zygote implants on wall of uterus



Pregnancy & Birth

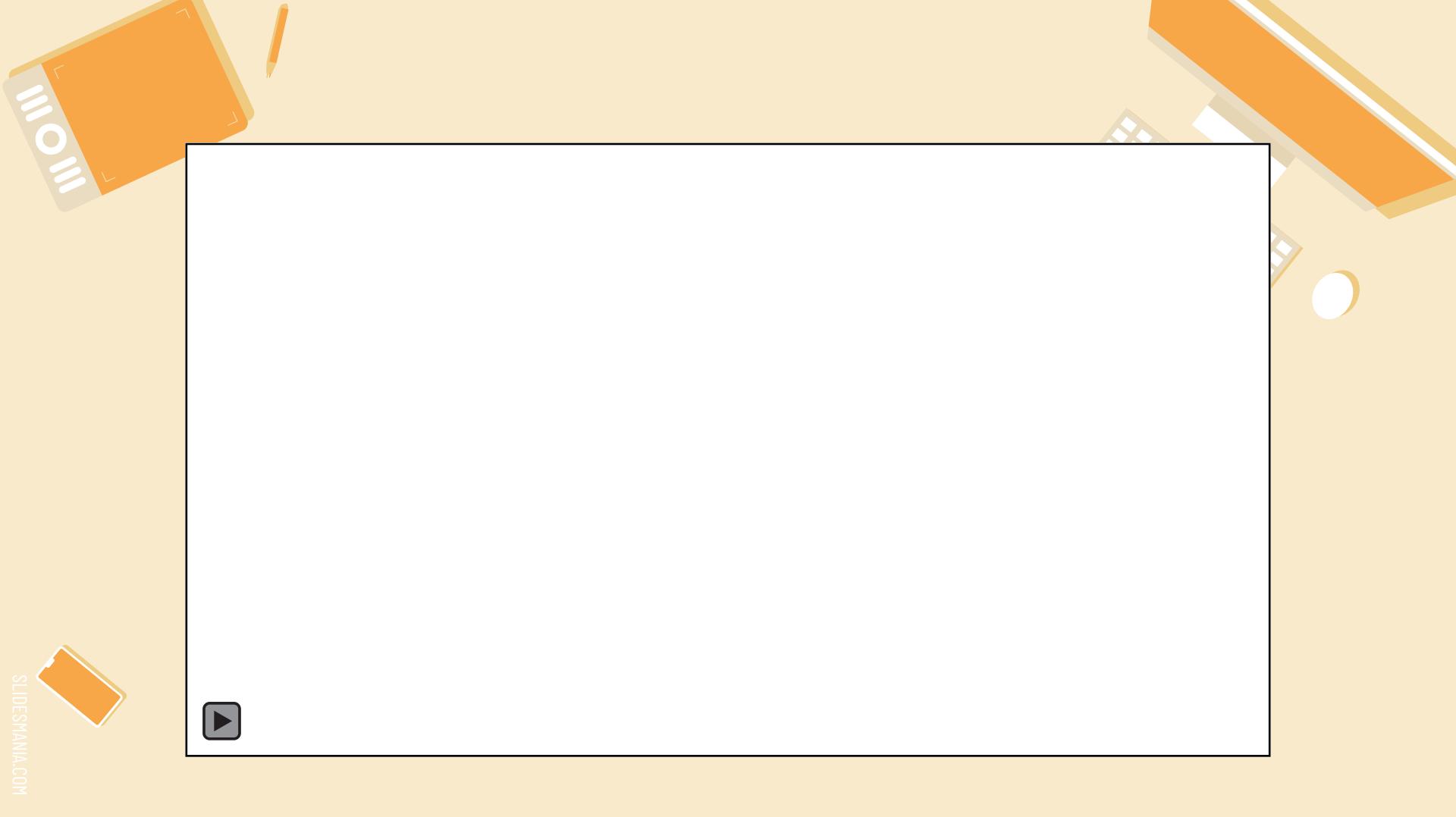
9. Confirm pregnancy
10. Good prenatal care
11. Nine months pass
12. Contractions of uterus opens cervix
13. Baby enters birth canal
14. Abdominal muscles push baby through vagina
15. Umbilical cord cut
16. Delivery of placenta

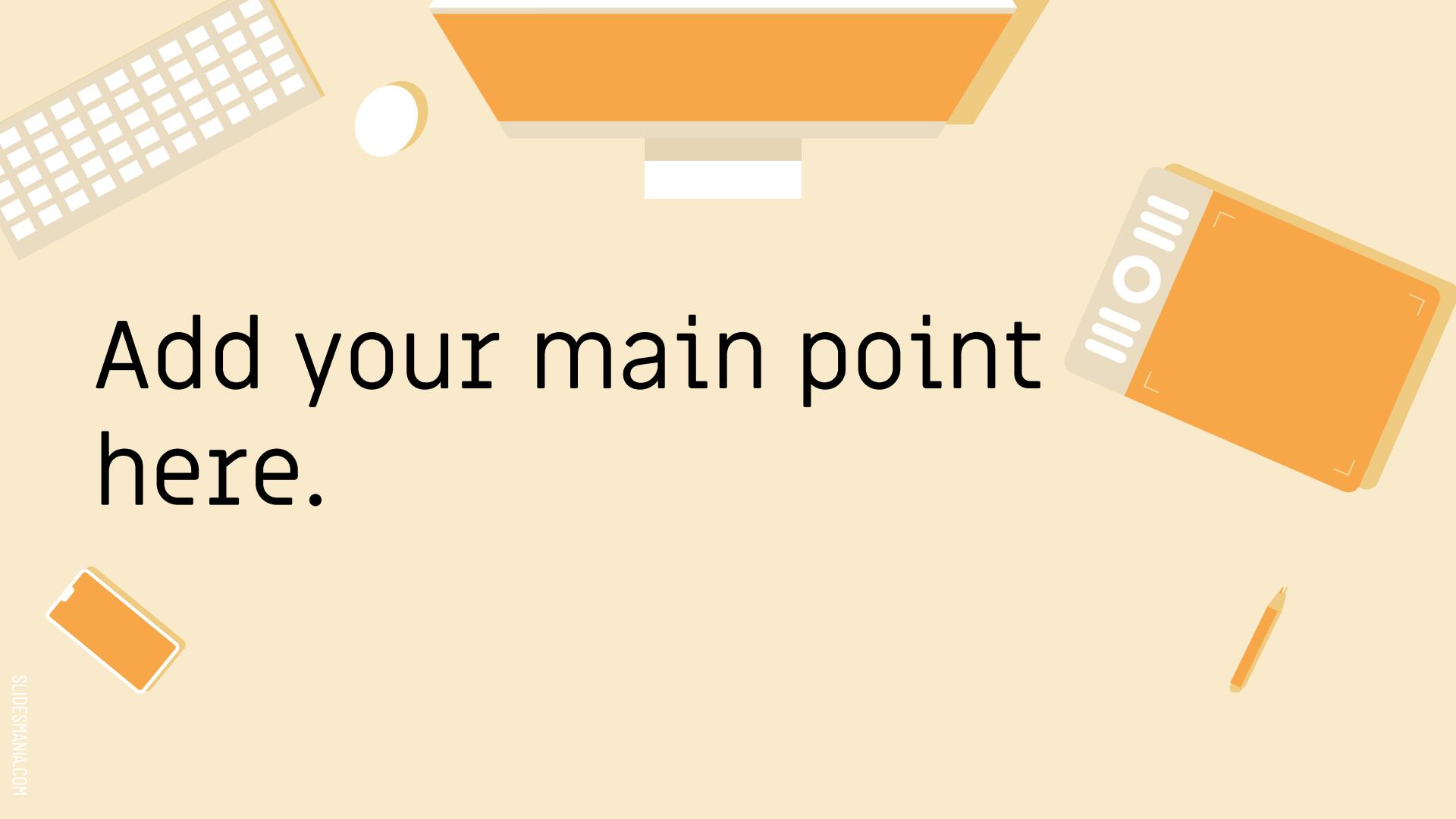
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- **Closure:**

- Knowledge Check

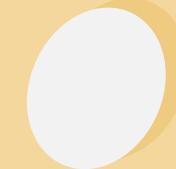
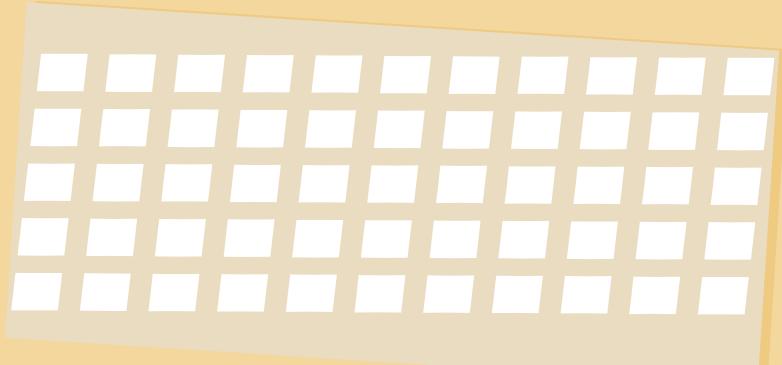


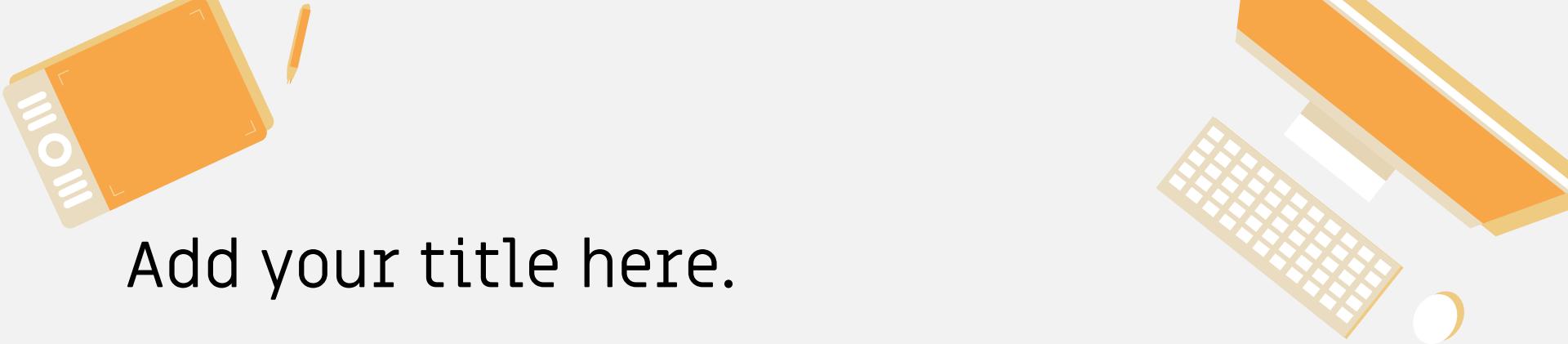




Add your main point here.

Great Idea!





Add your title here.

Did you know that pandas don't hibernate?

When winter approaches, they head lower down their mountain homes to warmer temperatures, where they continue to chomp away on bamboo!

Did you know that a cat uses its whiskers as feelers to determine if a space is too small to squeeze through?

Also, cats love to sleep. A fifteen-year-old cat has probably spent ten years of its life sleeping.

Did you know that elephants can sense storms?

Elephants may be able to detect a thunderstorm from hundreds of miles away, and will head towards it, looking for water.



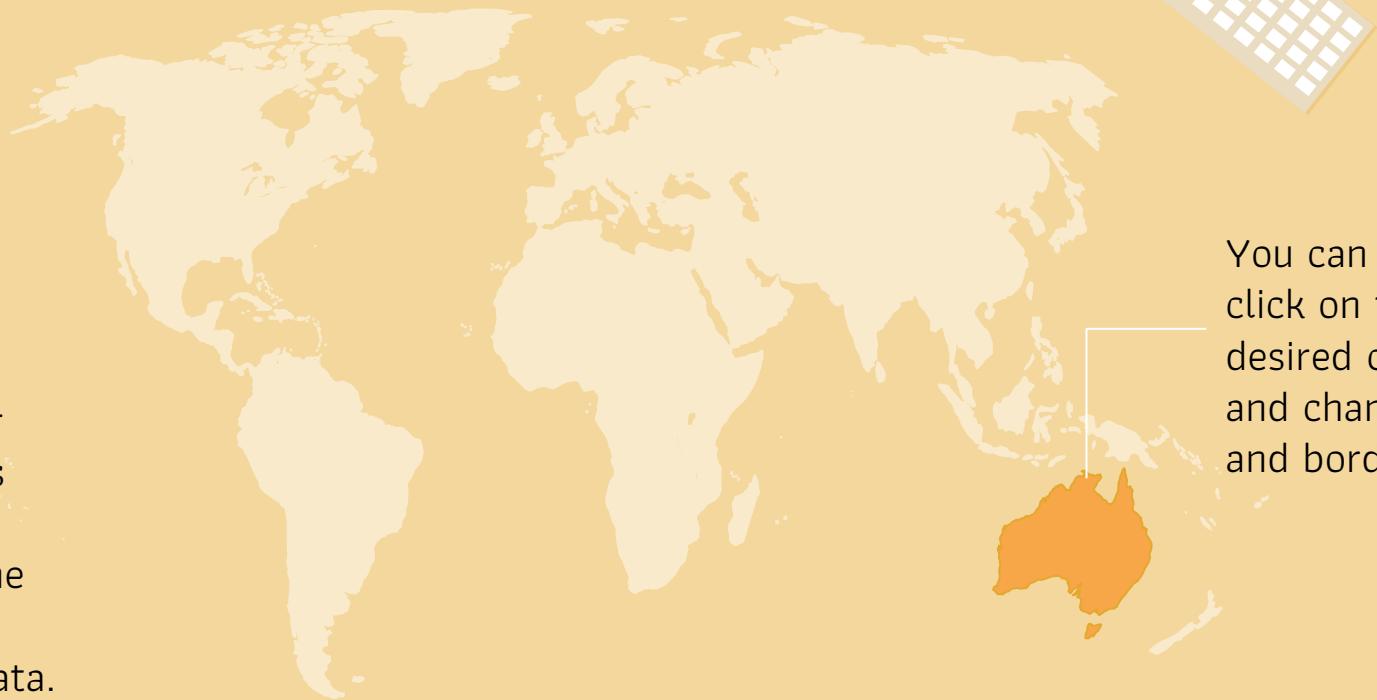
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Use images as backgrounds.

Here goes your map title.

You can use maps to show your offices or markets. Or as charts, highlighting the countries and adding your data.



Here goes your timeline or process.

2000

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2015

2020

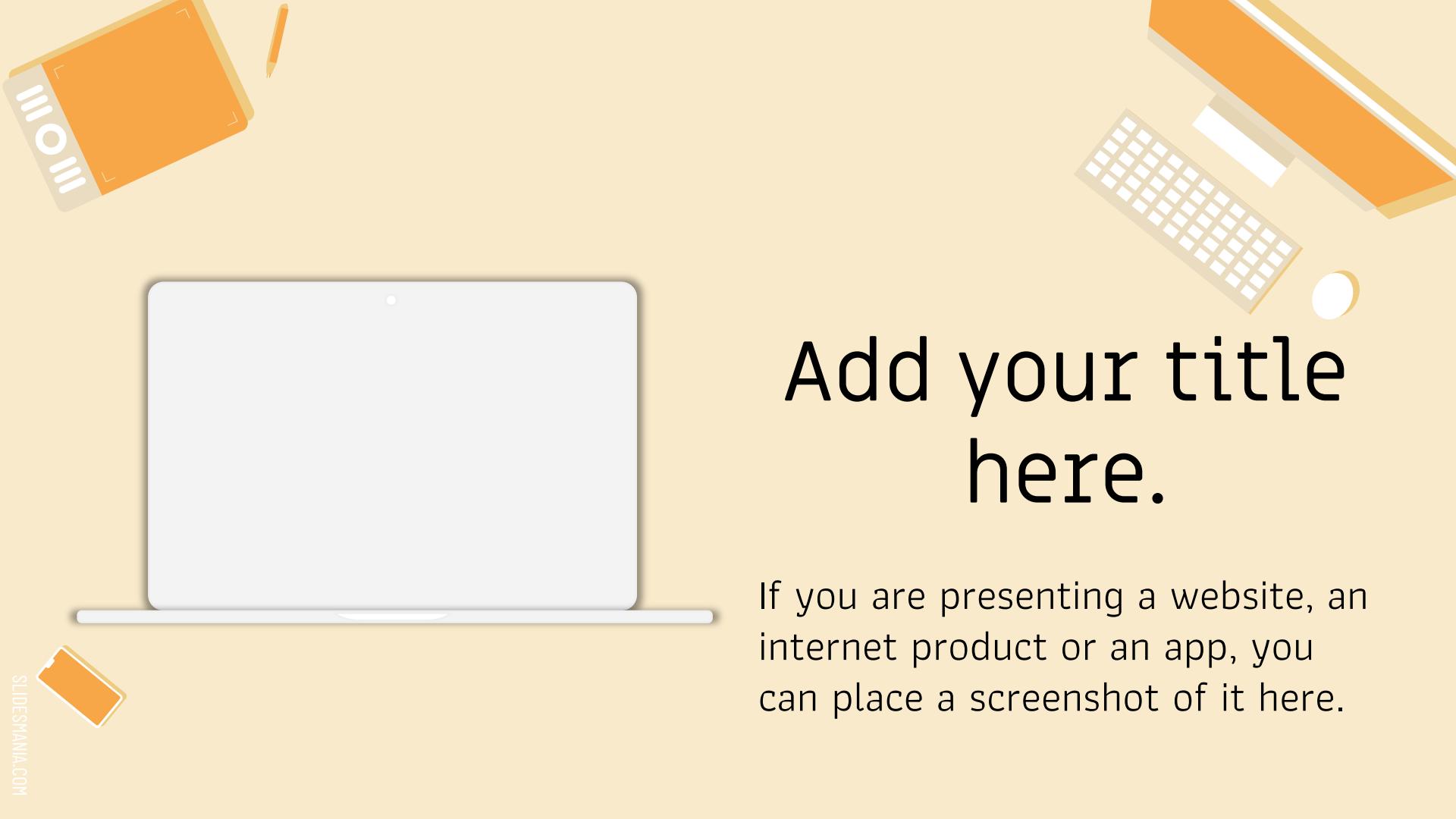
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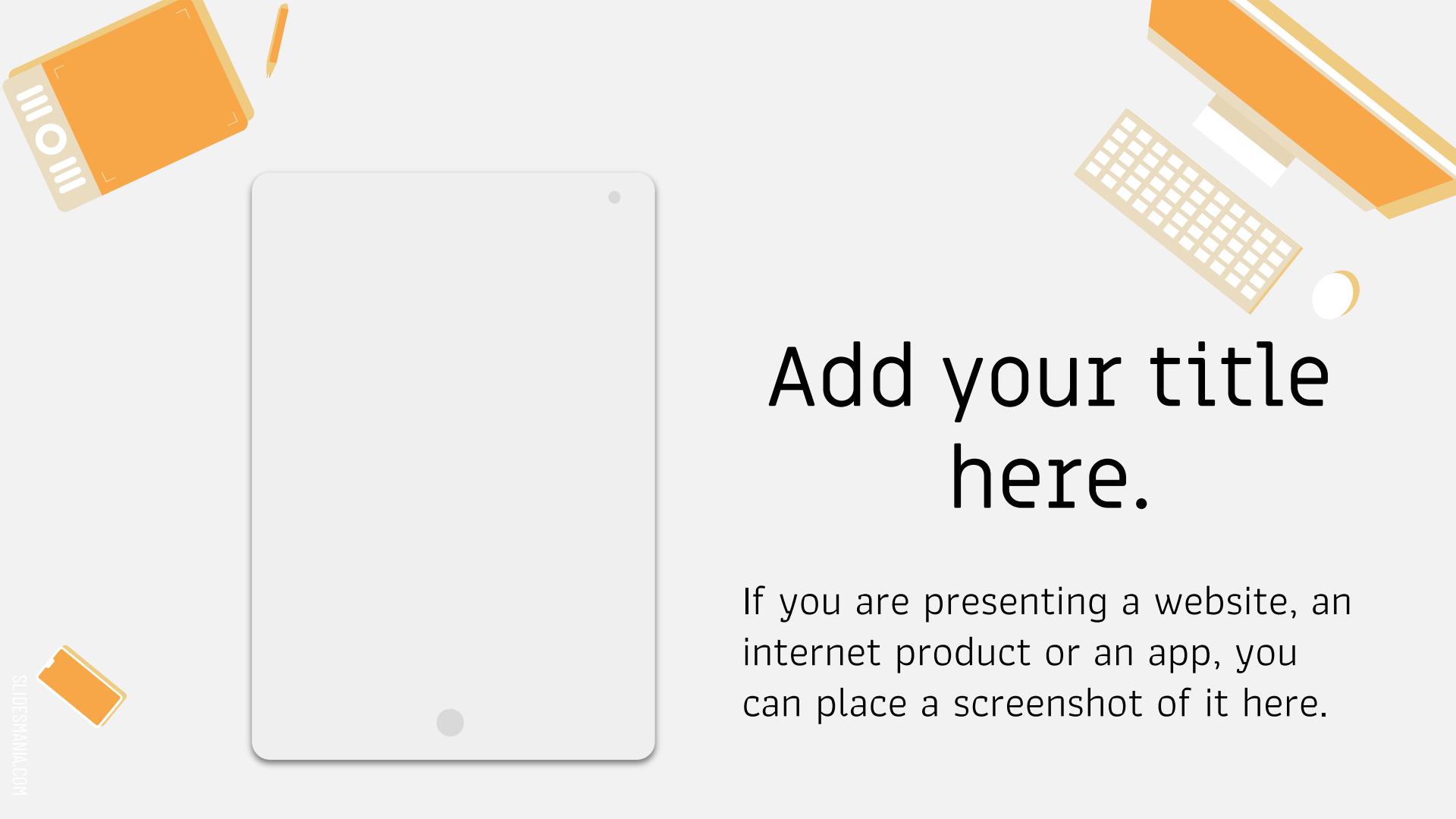
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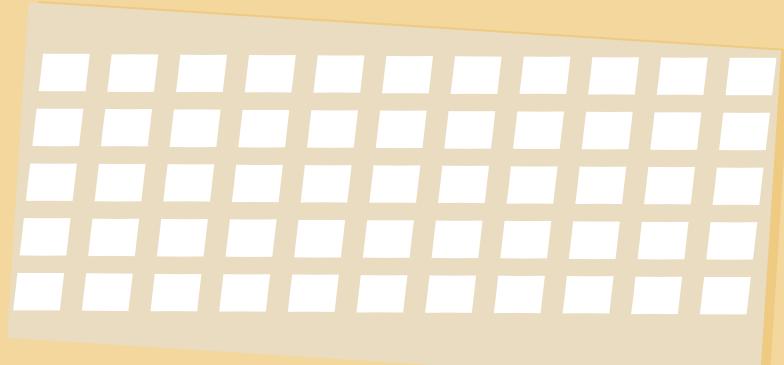
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