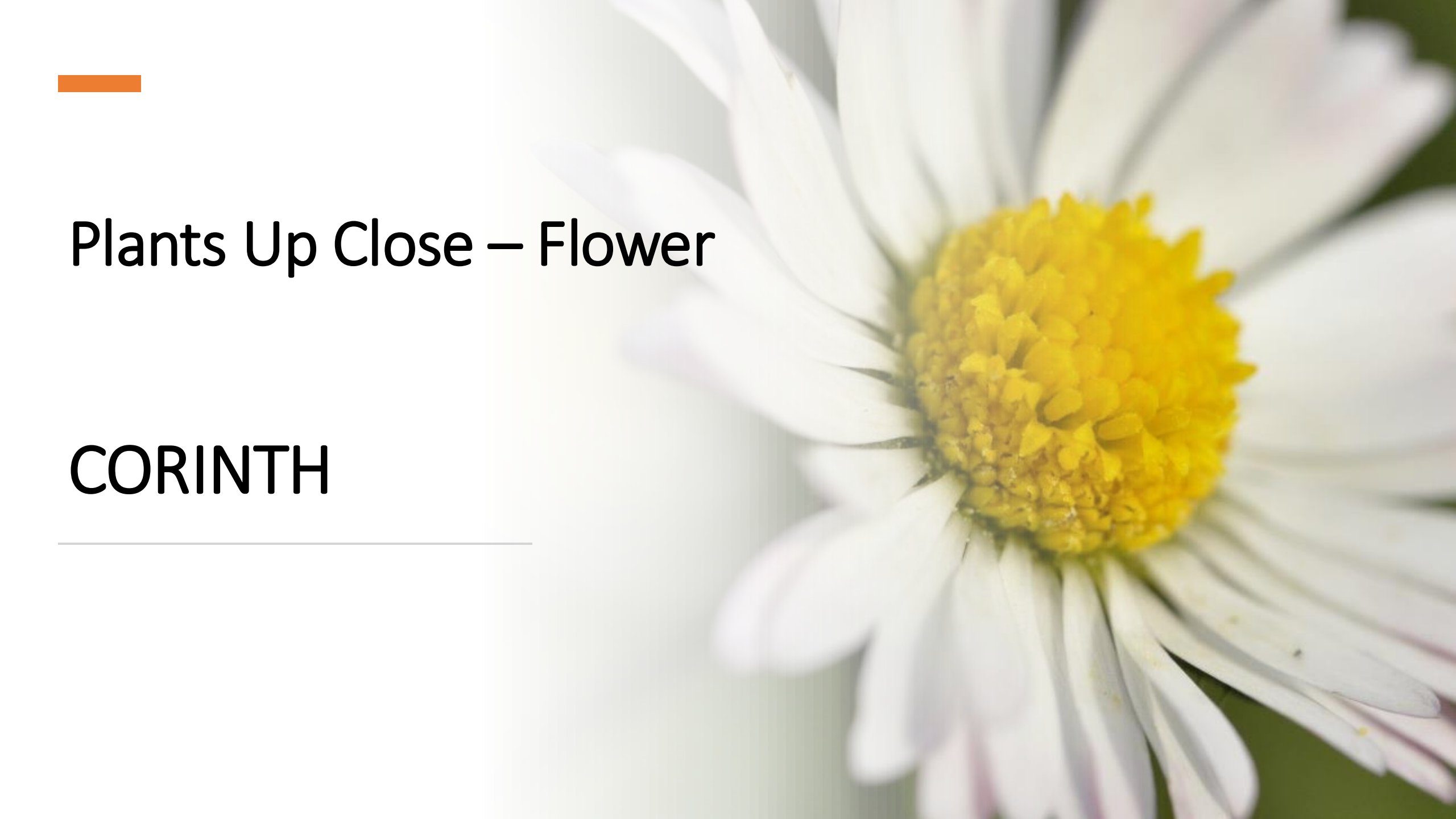
Plants Up Close – Flower

CORINTH



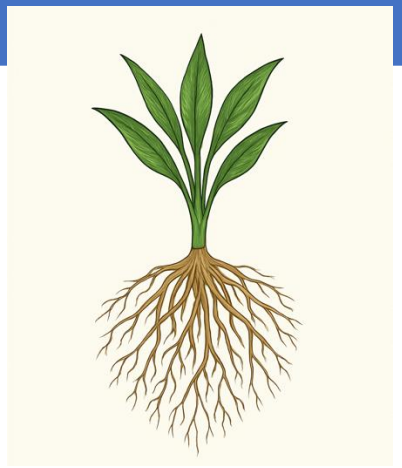
Recall – **Leaf Functions**

What do you know about flowers?

What is the most important function of a leaf?

What do we call the tissue that makes the stem grow in thickness?

Identify the type of root in the picture



Photosynthesis

Fibrous root

CAMBIUM

Find the correct pairs

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Strawberry – Reproductive stolon/runner

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Orchid – Aerial roots

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Onion – Storage function of the leaf

Carrot – Storage root

Cactus – Modified leaf, reduced to spines

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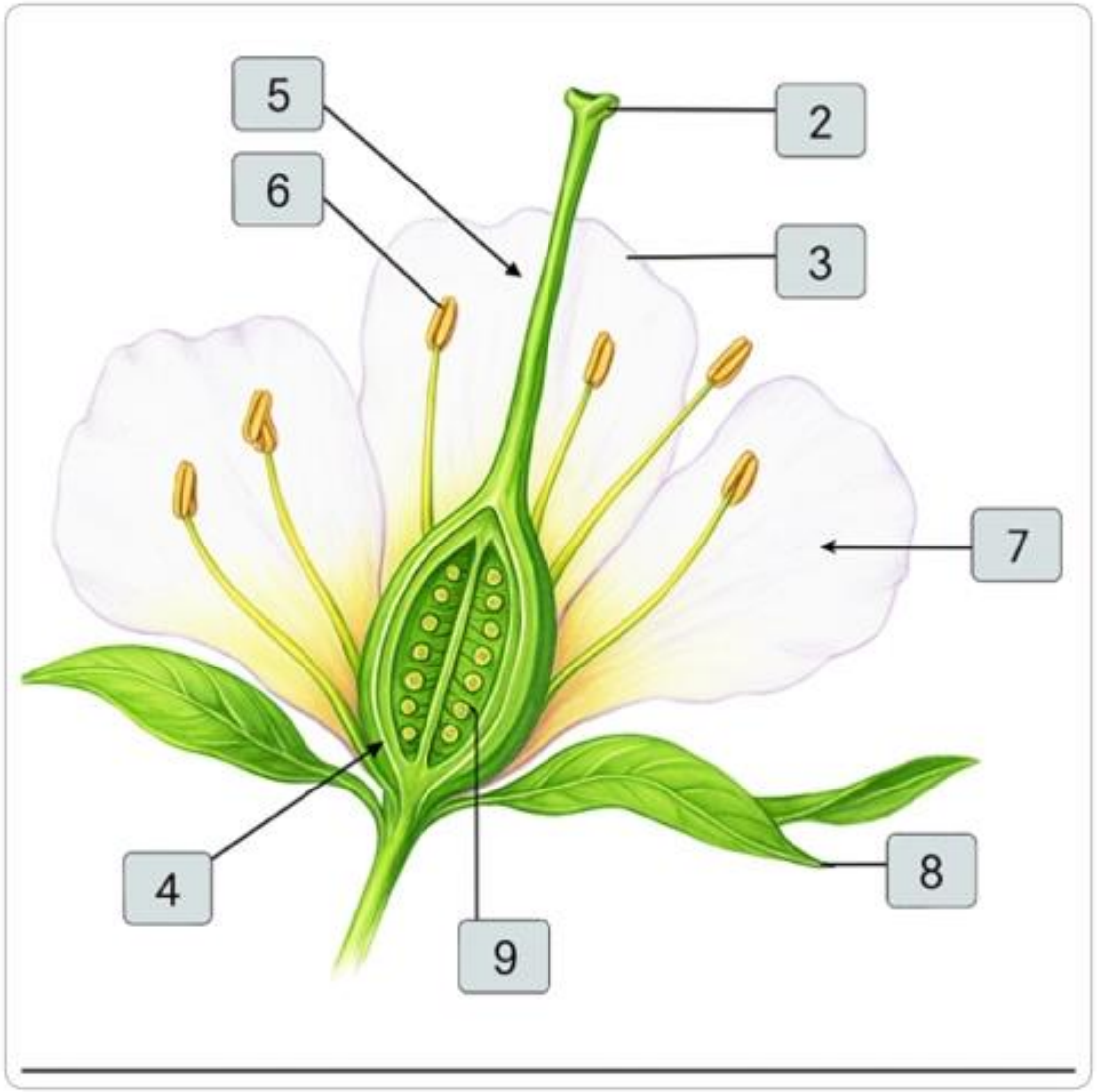
Potato – Storage function (tuber)

What do you know about flowers?

- Where do we find them?
- What is their role?
- Are all flowers the same?

Flower Structure



Stavba květu

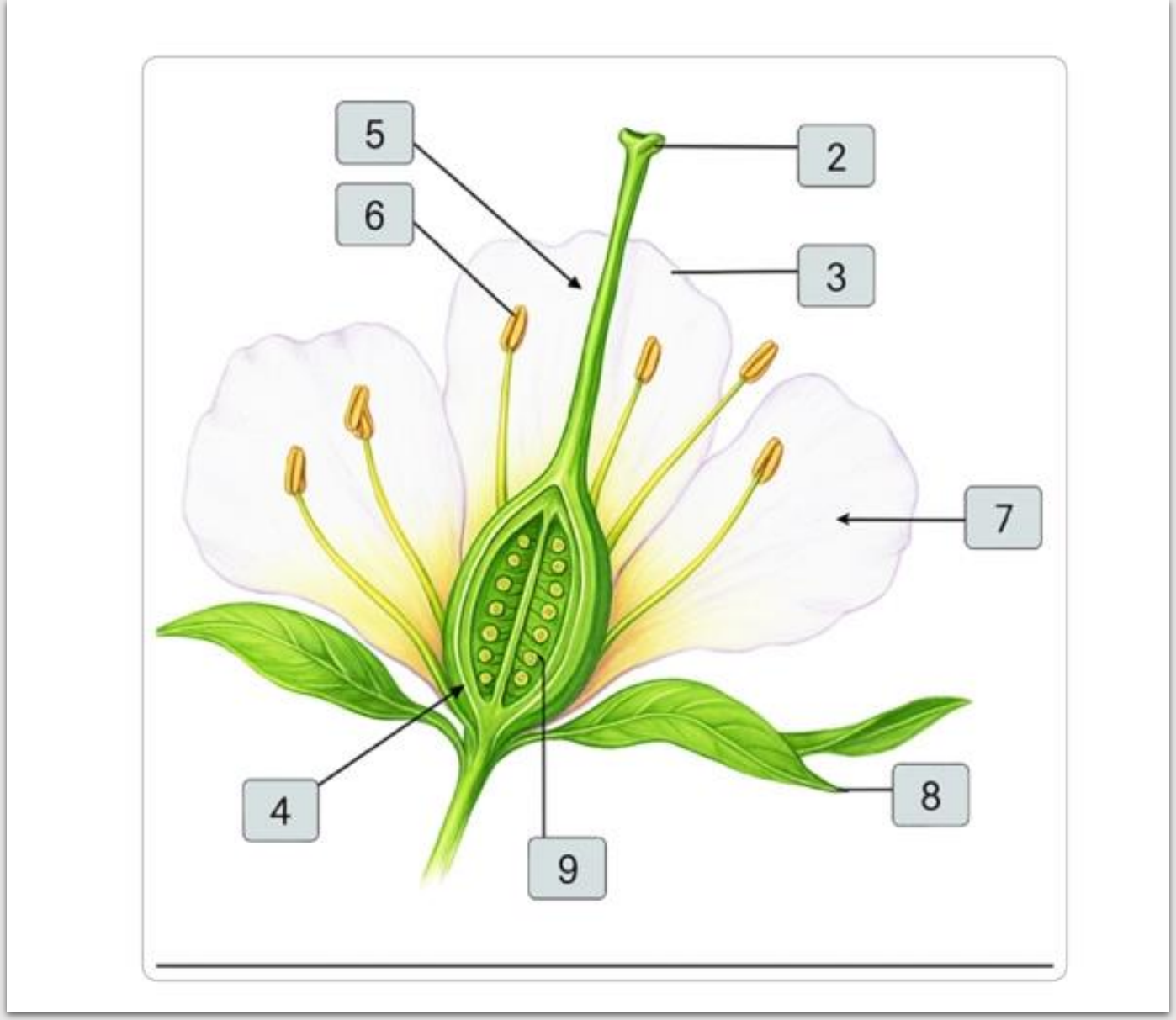
1. Stigma
2. Style
3. Ovary

Pistil

4. Ovules
5. Anther
6. Filament

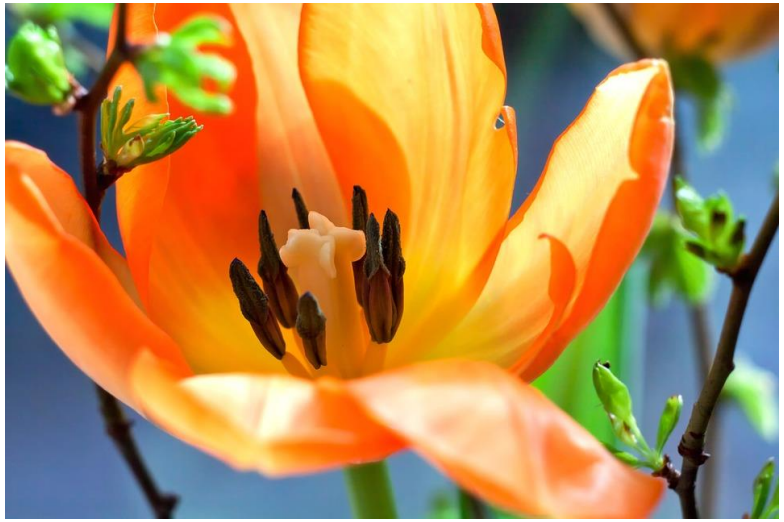
Stamen

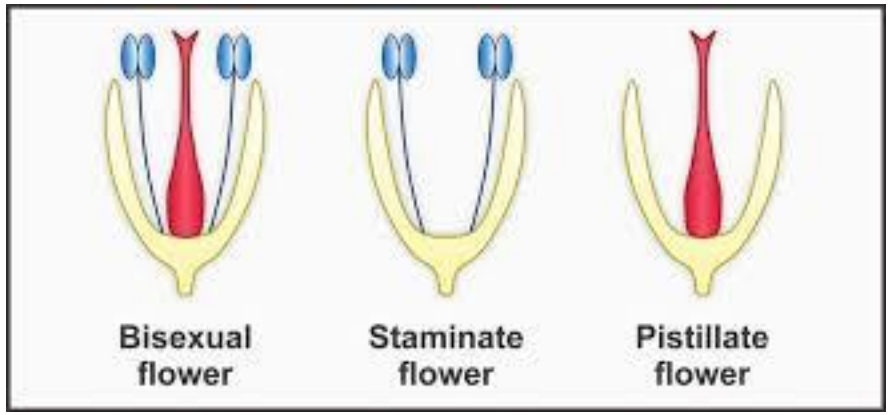
7. Corolla
8. Calyx
9. Receptacle



Pistil & Stamen

- Pistilate and Staminate flowers
- Unisexual vs. bisexual flowers





Explore Flower in 3D

- Identify stamen, pistil, corolla, calyx, ovary, stigma.

Functions of Flowers

- Attract pollinators
- Enable sexual reproduction
- Facilitate pollination & fertilization

Types of Floral Envelopes

- Without perianth
- differentiated (calyx + corolla)
- undifferentiated (tepals)

Uses of Flowers

- Medicine (chamomile, linden)
- Perfumes
- Vegetables (cauliflower)

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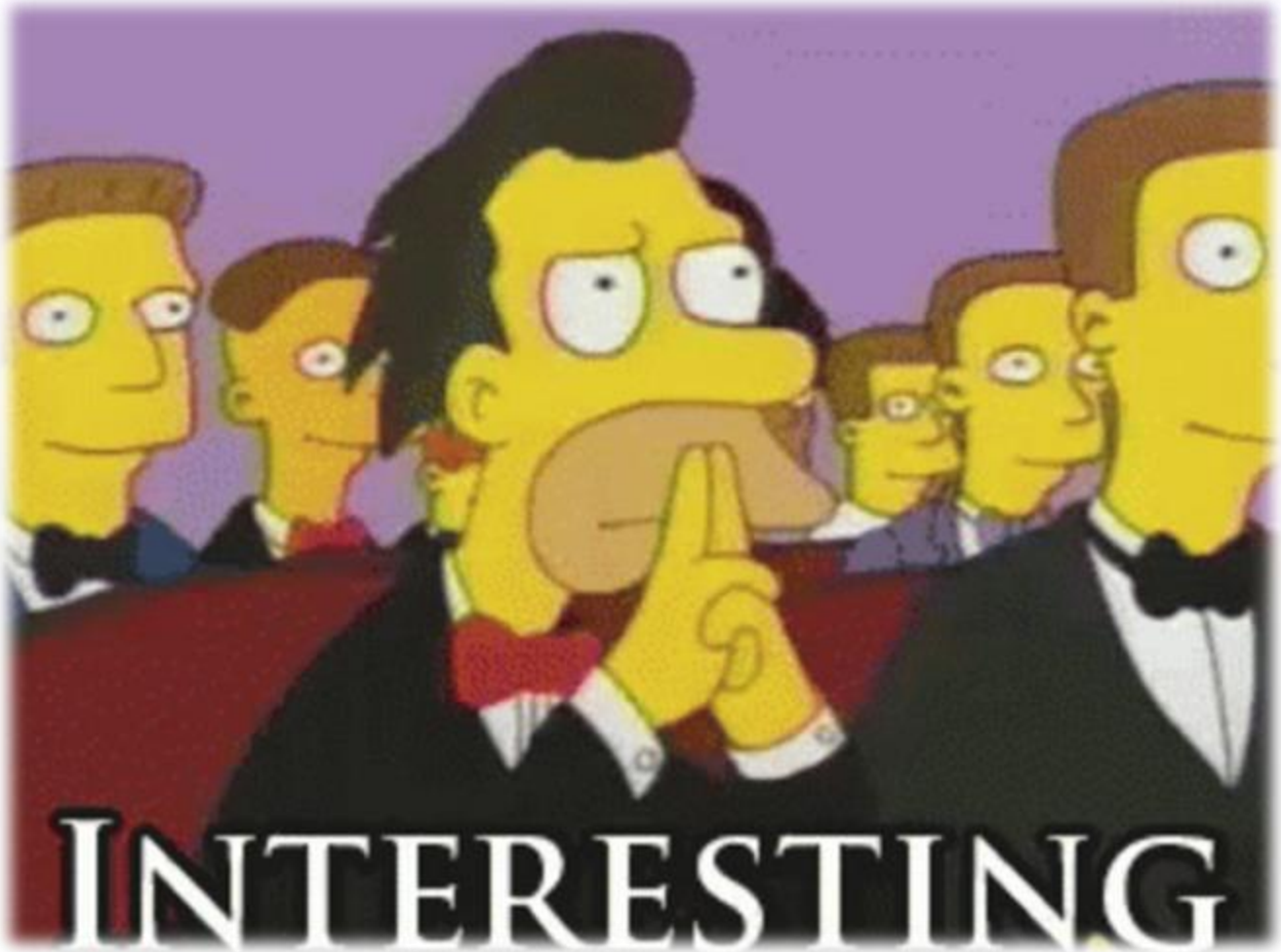
- https://www.youtube.com/watch?v=UMfMtaxxkAI



Explore Flower in 3D

Open the Corinth app and select a plant model with a flower (e.g., lily, dandelion, or tomato). By rotating and zooming in, find the following parts:

- Stamen
- Pistil
- Petals (Corolla)
- Sepals (Calyx)
- Ovary
- Stigma

Compare in VR

- Monocot vs. dicot – find at least two differences.

Creative Task

Vyber si jeden z těchto úkolů:

- Draw a flower based on the 3D model and label its parts.
- Create a short video or presentation explaining the structure of the flower to others.
- Write a story: *“I am a flower, waiting for a bee…”* (use what you learned from the model).

Thank you

Corinth made learning more visual and fun