

## Asexual and sexual reproduction in plants worksheet

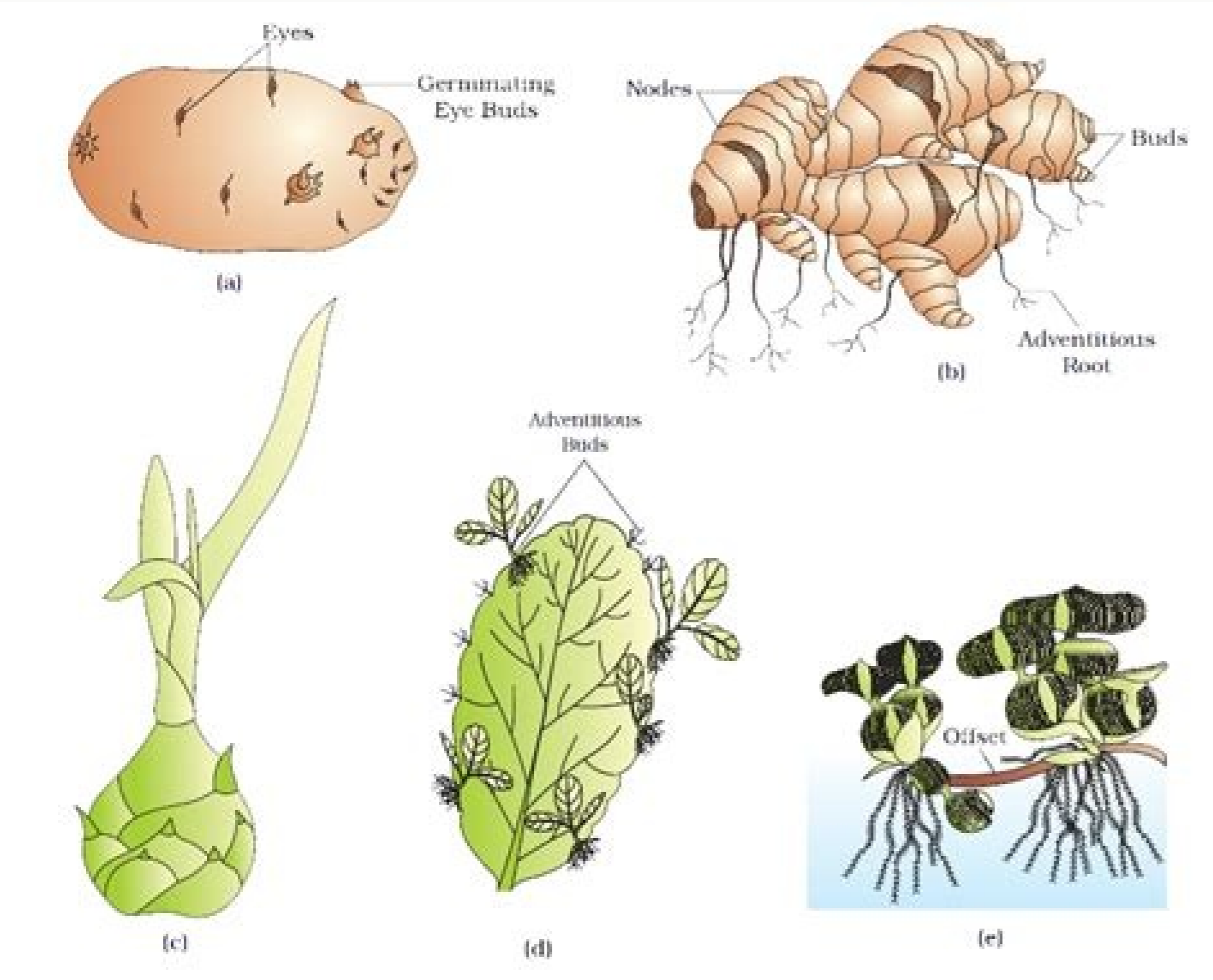


**Types of asexual reproduction include:**

- runners
- bulbs
- tubers
- budding
- binary fission
- fragmentation
- regeneration
- cloning

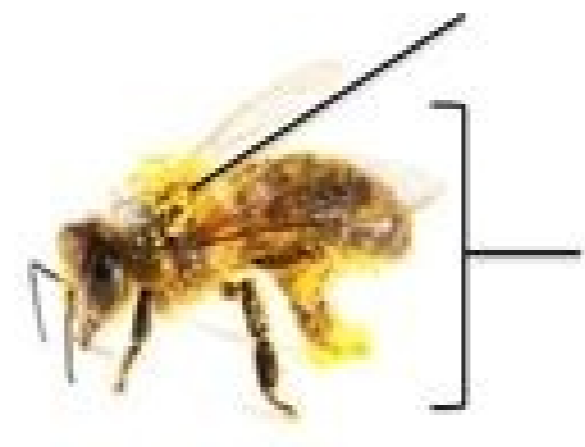
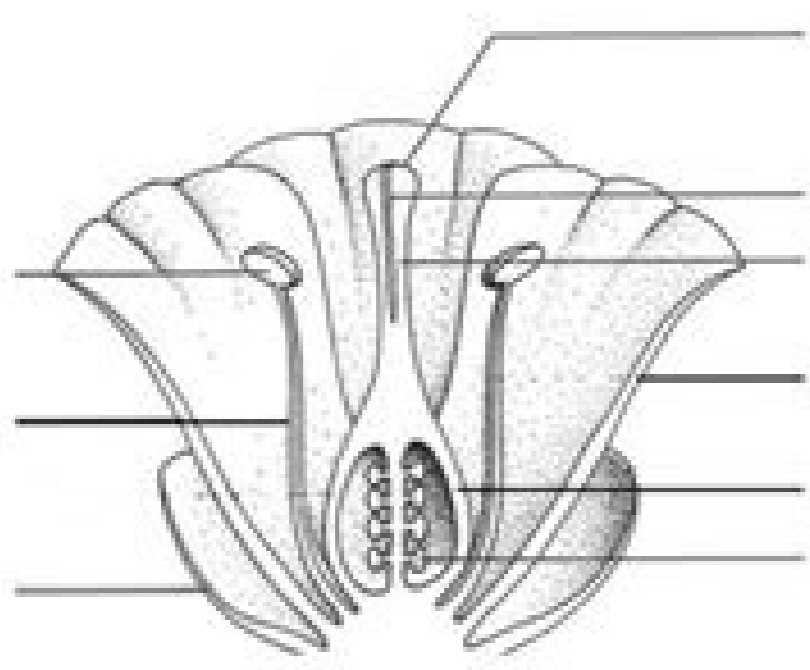
**Asexual Reproduction**

- Asexual reproduction is where \_\_\_\_\_ parent can produce \_\_\_\_\_
  - Very often this happens in \_\_\_\_\_ or fungi
  - One \_\_\_\_\_ simply divides into \_\_\_\_\_ to make a new bacteria
  - \_\_\_\_\_ new cell is \_\_\_\_\_ to the parent that made it
  - A cell that is identical is called a \_\_\_\_\_
  - All the \_\_\_\_\_ in every cell are the \_\_\_\_\_
  - Aphids, otherwise known as \_\_\_\_\_ can produce babies \_\_\_\_\_
  - This means that they do not need a partner, they can simply grow a new baby themselves!
- Taking Cuttings**
- Whenever you "clip" off a piece of a \_\_\_\_\_ and put it to grow in new soil you are making a \_\_\_\_\_ of the plant
  - The new plant is \_\_\_\_\_ to the plant that you took the clipping from
  - This is because plants grow by \_\_\_\_\_ reproduction



**Figure 1.4** Vegetative propagules in angiosperms: (a) Eyes of potato; (b) Rhizome of ginger; (c) Bulbil of *Agave*; (d) Leaf buds of *Bryophyllum*; (e) Offset of water hyacinth

| Plant          | Vegetative Propagule |
|----------------|----------------------|
| Potato         | Eyes                 |
| Ginger         | Rhizome              |
| Agave          | Bulbil               |
| Bryophyllum    | Leaf buds            |
| Water hyacinth | Offset               |



**Male Reproductive System**

Are any parts of the human reproductive system **analogous** to the parts of a flower? Label the diagrams above with the words below. Explain your choice.

**Female Reproductive System**

Vagina

Testis

Uterus

Ovary

Egg cell

Penis

Sperm

Difference between asexual and sexual reproduction in plants. What is asexual reproduction easy definition. What are the main differences between asexual reproduction and sexual reproduction. What are five examples of asexual reproduction. Sexual and asexual reproduction in plants worksheet. Sexual and asexual reproduction in plants ks2 worksheets. Sexual and asexual reproduction in plants worksheet pdf.

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Production of new individuals from the vegetative part of parent is called ..... 2. A flower may have either male or female reproductive parts. Such a flower is known as ..... 3. The transfer of pollen grains from the anther to the stigma of the same or of another flower of the same kind is known as ..... 4. The fusion of male and female gametes is termed as ..... 5. Seed dispersal takes place by means of ..... and ..... .B. Answer the following questions in short:1. Describe the different methods of asexual reproduction. Give examples.2. Explain what do you understand by sexual reproduction.3. State the main difference between asexual and sexual reproduction.4. Sketch the reproductive parts of a flower.5. Explain the difference between self-pollination and cross-pollination.6. How does the process of fertilisation take place in flowers?7. Describe the various ways by which seeds are dispersed.8. What is the function of flowers in plants?9. Coconut is a large and heavy fruit. How is it adapted for dispersal by water?10. Do you think insect-pollinated flowers can also be pollinated by wind? Why?C. Match the following: A'B'1. Buda, Maple2. Eyesb. Spirogyra3. Fragmentationc. Yeast4. Wingsd. Bread mould5. Sporese. Potatof. RoseD. Tick (α) the correct option:1. The reproductive part of a plant is the:(a) leaf(b) stem(c) root(d) flower2. The process of fusion of the male and the female gametes is called:(a) fertilisation(b) pollination(c) reproduction(d) seed formation3. Mature ovary forms the:(a) seed(b) bread mould(c) potato(d) ginger5. Bryophyllum can reproduce by its:(a) stem(b) leaves(c) roots(d) flower6. Dispersal takes place in coconut by:(a) air(b) bursts(c) human(d) waterE. State 'True' or 'False':1. Carrying of seeds to far off places is known as pollination. .... 2. After repeated division, zygote forms the fruit. .... 3. Yeast reproduce by asexual and sexual means. .... 4. Pollen grains are the male gametes of a flower. .... 5. Ginger is a stem which bears nodes and internodes. .... F. Given below is a list of plants:papaya, mustard, rose, corn, petunia, cucumber1. Which of these plants have unisexual flowers?2. Which of these plants have bisexual flowers?G. In the diagram of a bisexual flower given as figure draw the missing part and label the parts. Also label the missing part that you draw.H. Think of ten different fruit-bearing plants. Remember that many vegetables are also fruits of the plants. Discuss with your teacher, parents, farmers, fruit growers and agricultural experts (if available nearby) and find out the manner of their dispersal. Present your data in the form of a table as shown below:Worksheets for Class 7 Science In this worksheet, we will practice describing asexual reproduction in plants. Q1: Asexual reproduction is one way that plants reproduce. How many plants are needed for asexual reproduction to happen? A2 plants B4 plants C1 plant Q2: Select the correct definition of asexual reproduction in plants. A Male and female parts of a flower make seeds. B Pollen is taken from the anther of one flower to the stigma of another flower. CA new plant is made from a part of a single parent plant. Q3: Fill in the blank: Amelia is planting potato that will grow into new potato plants. Q4: Michael's dad is growing new plants. He has taken cuttings and planted them in pots. Fill in the blank: This is an example of reproduction. Q5: Benjamin has grown a lot of new plants by asexual reproduction. What is a disadvantage of asexual reproduction? AIt is very slow. BIf one of the plants gets a disease, all the plants are likely to get the disease. CIt is very expensive. Q6: Some plants can reproduce without seeds. Strawberry plants can reproduce using runners that spread out from the plant into the soil. These runners then grow into new plants. Which part of the plant creates the runner? AThe stem BThe flower CThe roots DThe leaf Q7: Which part of the potato plant do tubers grow from? AThe stem BThe ovary CThe pollen DThe root Q8: Plants can reproduce without seeds (asexually) by creating new plants from different parts of the parent plant. Which parts of a plant can be used to reproduce in this way? AStem, roots, and leaf BRoots, stem, and flower CStem, flower, and leaf DLeaf, roots, and flower Q9: Which of the following statements is an advantage of asexual reproduction in plants? APants can adapt to new environments. BPlants can reproduce faster. CThe new plant is more disease resistant. DThe new plant is only suited to one habitat. Q10: Root crops and tubers have a different kind of root structure. Root crops form one vegetable per stem. With tubers, a single plant can produce several tubers. Which of the plants shown below is a tuber crop? ACarrot, rutabaga, and turnip BCassava, ginger, and radish CPotato, carrot, and ginger DSweet potato, cassava, and potato

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