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Crash Course Biology (2012) #38: Plant Reproduction

Name: _____ Date: _____

You can access the video here → <https://youtu.be/EsuQ8shkkw8?si=zXqQ-KV21dRVDCw>

1. The plant life cycle strategy where two forms alternate by generation is called _____.
2. In this cycle, the _____ is diploid and has two sets of chromosomes.
3. The _____ is haploid and has just one set of chromosomes.
4. Unlike non-vascular plants, vascular plants are _____ dominant.
5. On the underside of a fern frond, _____ form and are released to germinate in moist places.
6. In seed plants, _____ carry the male gametophyte.
7. The female gametophytes are the _____, which are fertilized by pollen.
8. After fertilization, the complete cell develops into a _____ with nutrients and a protective casing.
9. _____ means "naked seed," referring to ovules developing exposed on cone scales.
10. The spiky woody cone houses ovules and is the _____ cone; the smaller spongy cone makes pollen.
11. Lodgepole pine cones are _____; they open and drop seeds only after extreme heat.
12. The most diverse land plants are _____, which reproduce using flowers and seeds.
13. Many flowers and flying insects _____ together, exchanging nectar for pollen transport.
14. The male flower structure (anther on a filament) is the _____.
15. After fertilization, the ovary grows around the seed and becomes the _____.

Crash Course Biology (2012) #38: Plant Reproduction - KEY

1. The plant life cycle strategy where two forms alternate by generation is called **alternation of generations**.
2. In this cycle, the **sporophyte** is diploid and has two sets of chromosomes.
3. The **gametophyte** is haploid and has just one set of chromosomes.
4. Unlike non-vascular plants, vascular plants are **sporophyte** dominant.
5. On the underside of a fern frond, **spores** form and are released to germinate in moist places.
6. In seed plants, **pollen** carry the male gametophyte.
7. The female gametophytes are the **ovules**, which are fertilized by pollen.
8. After fertilization, the complete cell develops into a **seed** with nutrients and a protective casing.
9. **Gymnosperm** means "naked seed," referring to ovules developing exposed on cone scales.
10. The spiky woody cone houses ovules and is the **female** cone; the smaller spongy cone makes pollen.
11. Lodgepole pine cones are **serotinous**; they open and drop seeds only after extreme heat.
12. The most diverse land plants are **angiosperms**, which reproduce using flowers and seeds.
13. Many flowers and flying insects **co-evolved (mutualism)** together, exchanging nectar for pollen transport.
14. The male flower structure (anther on a filament) is the **stamen**.
15. After fertilization, the ovary grows around the seed and becomes the **fruit**.

15 Questions

Answer Key Included

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