

## 1. Voortplanting by Vertebrate:

### > Ovipaar vs. Vivipaar vs. Ovivivipaar:

#### OVIPAAR:

- Interne en ekstern bevrugting
- Eiers word gelê
- Ontwikkeling van embrio vind buite moeder liggaam plaas
- Nadele:
  - Eiers is maklike prooi vir predatore

#### VIVIPAAR:

- Interne bevrugting
- Embrio ontwikkeling binne uterus van die moeder
- Ontvang voedingstowwe van moeder plasenta
- Voordele:
  - Beter beskerming van embrio

#### OVOVIVIPAAR:

- Interne bevrugting
- Eiers word gehou binne die moeder se liggaam
- Verkry voedingstowwe van die eiersak
- Eier broei uit binne die moeder se liggaam
- Word dan lewendig gebore
- Voordele:
  - Groter kans van nageslag om produseer te word
  - Goed ontwikkelde nageslag word produseer
  - Beskerming teen predatore

### > Prekosiale vs. Altrisiële ontwikkeling:

#### PREKOSIAAL:

- Oë is oop as hul uitbroei
- Liggaam is **bedek** met sagte vere (**dons**)
- Instaat om vinnig na uitbroei te **beweeg**
- Instaat om **hulself** te **voed**
- **ONAFHANKLIK** van ouers
- Eiers verskaf **HOË energie** aan ontwikkelende embryos

#### ALTRISIEEL:

- Oë is **toe** as hul uitbroei
- Liggame is **NIE** bedek met **dons**
- **NIE** instaat om te **beweeg** kort na uitbroei
- **NIE** instaat om **hulself** te **voed** nie
- **AFHANKLIK** van ouers
- Eiers verskaf **MINDER energie** aan ontwikkelende embryos

### > Amniotiese eier met ekstra-embriëniese membrane & funksies:

#### 1. CHORION:

- ✓ Laat O<sub>2</sub> in en
- ✓ CO<sub>2</sub> deur die dop na buite

#### 2. AMNION:

- ✓ Membraan wat die amnionholte omring en wat amniotiese vloeistof/ vrugwater bevat
- ✓ wat die embrio teen meganiese beserings beskerm.

#### 3. ALLANTOIS:

- ✓ Stoor afval wat deur die embrio geproduseer word
- ✓ Funksioneer ook in gaswisseling

#### 4. DOOIERSAK:

- ✓ Voeding aan die embrio

#### 5. DOP:

- ✓ Voorkom uitdroging
- ✓ beskerming

### > Ekstern en interne bevrugting:

#### EKSTERN:

- Sperm **bevrug** eiersel **BUITE** die liggaam van wyfie.
- **Water** word altyd **VEREIS**
- **Fisiese kontak** word **NIE VEREIS**
- Bv. visse, padder
- Nadele:
  - Kanse van bevrugting neem af
  - Groot hoeveelhede sperm nodig
  - Sigoot **NIE** goed **beskerm** teen **predatore** nie

#### INTERN:

- Sperm word **binne** die liggaam van die wyfie deponer
- Bevrugting vind **BINNE** wyfie voortplantingstelsel plaas
- Bv. voëls, soogdiere
- Voordele:
  - Kanse van bevrugting groot
  - Klein hoeveelhede sperm nodig
  - Sigoot **GOED** **beskerm** in wyfie

# Lewenswetenskappe Vraestel Nov 2012 Gr 1

**DJ Losen**



**Lewenswetenskappe Vraestel Nov 2012 Gr 1:**

This book delves into Lewenswetenskappe Vraestel Nov 2012 Gr 1. Lewenswetenskappe Vraestel Nov 2012 Gr 1 is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lewenswetenskappe Vraestel Nov 2012 Gr 1, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Lewenswetenskappe Vraestel Nov 2012 Gr 1
    - Chapter 2: Essential Elements of Lewenswetenskappe Vraestel Nov 2012 Gr 1
    - Chapter 3: Lewenswetenskappe Vraestel Nov 2012 Gr 1 in Everyday Life
    - Chapter 4: Lewenswetenskappe Vraestel Nov 2012 Gr 1 in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Lewenswetenskappe Vraestel Nov 2012 Gr 1. This chapter will explore what Lewenswetenskappe Vraestel Nov 2012 Gr 1 is, why Lewenswetenskappe Vraestel Nov 2012 Gr 1 is vital, and how to effectively learn about Lewenswetenskappe Vraestel Nov 2012 Gr 1.
  3. In chapter 2, this book will delve into the foundational concepts of Lewenswetenskappe Vraestel Nov 2012 Gr 1. The second chapter will elucidate the essential principles that must be understood to grasp Lewenswetenskappe Vraestel Nov 2012 Gr 1 in its entirety.
  4. In chapter 3, this book will examine the practical applications of Lewenswetenskappe Vraestel Nov 2012 Gr 1 in daily life. The third chapter will showcase real-world examples of how Lewenswetenskappe Vraestel Nov 2012 Gr 1 can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Lewenswetenskappe Vraestel Nov 2012 Gr 1 in specific contexts. This chapter will explore how Lewenswetenskappe Vraestel Nov 2012 Gr 1 is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Lewenswetenskappe Vraestel Nov 2012 Gr 1. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Lewenswetenskappe Vraestel Nov 2012 Gr 1.

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### **Lewenswetenskappe Vraestel Nov 2012 Gr 1 Introduction**

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