

# Hoërskool Ermelo School Subjects

## Hoërskool Ermelo skoolvakke

### Gr 10-12

Diverse  
subjects that  
shape student  
learning





# Overview Oorsig

## **Oorsig van vakke**

Die aanbieding sal 18 vakke dek en hul betekenis in die opvoedkundige kurrikulum ten toon stel.

## **Curriculum Importance**

Each subject will be highlighted for its importance and role in student development and learning outcomes.

## **Studente se leerverwagtinge**

Studente kan verwag om sleutelkonsepte en vaardighede aan te leer wat noodsaaklik is vir hul akademiese groei.







# Mathematical Literacy

## Wiskundige Geletterdheid

**Practical application of mathematical concepts in everyday situations**



- ✓ **Munisipale rekeninge**
- ✓ **Selfoon kontrakte**
- ✓ **Brandstofverbruik en reisbeplanning**
- ✓ **Waarskynlikheid**
- ✓ *Interpret and analyze numerical data*
- ✓ *Reading & interpreting graphs*
- ✓ *Make informed decisions based on statistics.*

**Om wiskundige konsepte te verstaan is belangrik vir persoonlike finansiële bestuur soos begrotings, om te spaar, beleggings, lenings en persoonlike inkomstebelasting.**



# Life Orientation

## Lewensoriëntering



### **Persoonlike ontwikkeling**

Persoonlike ontwikkeling is 'n sleutelfokus van Lewensoriëntering, wat studente help om selfbewustheid en selfbeeld te ontwikkel.

### **Health Education**

Health education topics promote physical and mental well-being, teaching students the importance of a healthy lifestyle.

### **Social Responsibility**

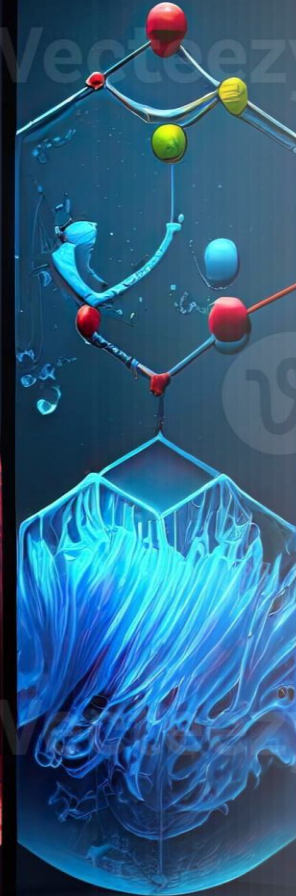
Life Orientation encourages social responsibility, helping students understand their role in the community and the importance of civic engagement.

### **Loopbaanvoorligting**

Loopbaanvoorligting berei studente voor vir toekomstige indiensneming en bied hulle die gereedskap en kennis om ingeligte loopbaankeuses te maak.



# Physical Sciences



## Study of Matter

Matter is the foundation of physical sciences, involving the exploration of its properties and states. Students learn how matter interacts in various forms.

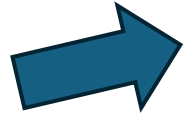
## Energy Concepts

The study of energy includes its forms, transformations, and conservation laws, crucial for understanding physical processes in the universe.

## Conducting Experiments

Students engage in hands-on experiments to apply scientific principles, fostering a deeper understanding of physics and chemistry.

Your money



SA's money



The world's money

EKONOMIE / ECONOMICS



Behind the scenes



Who is in control?



How does it work?





# Accounting

## Rekeningkunde

### **Financial Record-Keeping / Rekordering**

Accounting principles focus on accurate financial record-keeping, which is essential for business operations and decision-making.

### **Finansiële state**

**Studente leer om finansiële state voor te berei en te ontleed, wat insigte gee in 'n besigheid se finansiële prestasie.**

### **Budget Management**

Understanding budgets is crucial in accounting, as it helps manage resources and plan for future financial needs.



## **Understanding Business Operations**

Business Studies offers valuable insights into how various businesses operate in today's dynamic environment.

## **Entrepreneurskap Verkenning**

Studente leer oor entrepreneurskap, die bevordering van innoverende denke en die vaardighede wat nodig is om hul eie besighede te begin.

## **Marketing Fundamentals**

Understanding marketing principles helps students grasp how products and services are promoted in the market.

## **Human Resources Insights**

Business Studies covers human resource management, emphasizing the importance of managing people within organizations.



# Landbouwetenskap / Sciences

- Grondkunde / Soil Science
- Plantstudies / Plant Science
- Dierestudies / Animal Science
- Landbou-ekonomie en Bemaking / Economics and Marketing
- Genetika / Genetics
- Basiese chemie / Basic chemistry
- Optimale hulpbronbenutting / Optimal resource utilization
- Agri- ekologie en –toerisme / Ecology and Agri-tourism



# Landboubestuur / Management

- Gewasproduksie / Crop production
- Gewasbestuur / Crop Management
- Grond en waterbestuur/ Soil and Water management
- Diereproduksie/ Animal production
- Dierbestuur/ Animal management
- Bestuursbeginsels en Entrepreneurskap/ Management principles and Entrepreneurship
- Plaasbeplanning en Rekordhouding / Farm management and Recordkeeping
- Oes en kwaliteitsbeheer / Harvesting and quality management
- Bemaking en Waardetoevoeging / Marketing and Value adding
- Agri-toerisme / Agri-tourism







# Agricultural Technology

## **Use of Machinery**

Modern machinery plays a crucial role in agriculture, helping to increase efficiency and reduce labor costs.

## **Biotechnology in Agriculture**

Biotechnology enhances crop yields and resilience through genetic modifications and innovations in plant science.

## **Innovations in Agriculture**

Technological innovations, such as precision farming, improve productivity and sustainability in agricultural practices.



## Practical Computer Skills

Students gain hands-on experience with software applications, enhancing their proficiency in computer technology.



## Sagteware vaardigheid

Die kurrikulum beklemtoon die aanleer van noodsaaklike sagteware soos woordverwerkers, sigblaaie en aanbiedingsinstrumente.



## Digital Literacy Enhancement

The course aims to improve students' digital literacy, preparing them for the technology-driven world.



**CAT**  
**RTT**





# Information Technology

## Computer Systems

Information Technology explores the components and functions of computer systems, enhancing students' technical knowledge.

## Programming Skills

Students develop essential programming skills that equip them to create software applications and solve problems effectively.

## Impact of Technology

Understanding how technology influences society is crucial for students in navigating ethical challenges and future innovations.



# Geography

## **Fisiese Geografie**

Fisiese geografie fokus op natuurlike landskappe, klimaat, plantegroei en hoe hierdie elemente die aarde se oppervlak vorm.

## **Human Geography**

Human geography examines the relationships between people and their environments, including cultural, economic, and urban development.

## **Geographic Information Systems**

Geographic Information Systems (GIS) are tools used for mapping and analyzing spatial data, enhancing our understanding of geography.



# Biology

is **L**ife

**Die Wetenskaplike studie van alle lewe op aarde!**

***The Scientific Study of all life on earth!?***



**Study Fields:**  
**Diversity of life**  
**Ecosystems & Interactions**  
**Genetics & Evolution**  
**Human anatomy**

**Investigations**



**Studievelde:**  
**Diversiteit van Lewe**  
**Ekosisteme & Interaksies**  
**Genetika & Evolusie**  
**Menslike anatomie**









# TOERISME - TOURISM

*A whole world in a single subject*

- **The study of why people travel , their needs & expectations**
- **Responsible and sustainable tourism & the relationship between the environment, community & economy**
- *Toerismegeografie & attraksies, bekende ikone, boustrukture, geografiese kenmerke en tydsones.*
- *Impak van wêreldwye gebeure soos die 2025-Los Angeles-brande, tsoenami's, 911, Olimpiese Speles en verskeie Wêreldbeker-byeenkomste op die lande*
- *Vaardighede om kaarte, afstandtabelle en vervoerroosters te interpreteer om 'n reisplan te ontwikkel.*
- **Documents needed & currency exchange when travelling**
- *Kliëntediens, kulturele verskille, diensuitnemendheid & die gebruik van tegnologie vir reis*

**Tourism broadens your horizons,  
there is a wide world out there..**



**Why tourism? Why not?**



# Engineering and Graphics Design / IGO

## Beginnels van ontwerp

Studente onderzoek die fundamentele beginsels van ontwerp en leer hoe om dit in verskeie projekte toe te pas.

## Technical Drawings

Creating technical drawings is essential for visualizing engineering concepts and communicating ideas effectively.

## Probleemoplossingsvaardighede

Die ontwikkeling van probleemoplossingsvaardighede is van kardinale belang om uitdagings in ontwerpingenieursprojekte aan te pak.





# Visual Arts

## Moedig kreatiwiteit aan

Visuele kunste bied 'n platform vir individue om hul kreatiwiteit deur verskillende artistieke mediums te verken en uit te druk.

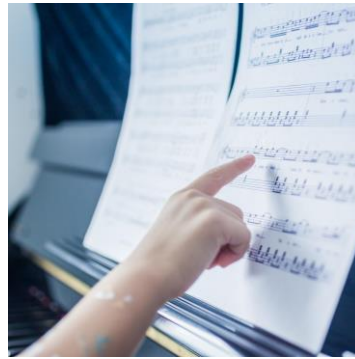
## Artistic Skills Development

Students enhance their artistic skills through hands-on experiences in painting, drawing, and sculpture techniques.

## Kunsgeskiedenis en kritiek

Om oor kunsgeskiedenis en kritiek te leer, help studente om uiteenlopende artistieke bewegings en style te verstaan en te waardeer.

# Music



## Understanding Music Theory

Music education helps students grasp essential concepts of music theory, enhancing their overall musical knowledge.



## Performance Opportunities

Students have opportunities to participate in performances, which enhances their confidence and stage presence.



## Exploring Musical Genres

Engaging with various musical genres broadens students' appreciation and understanding of diverse musical styles.