



# STRATEGY 2033+

# 11. PHASE 4: ROAD TO 60 FUTURE SCIENTISTS WINTER SCHOOL (13 – 17 JULY)

Five-day learner journey:

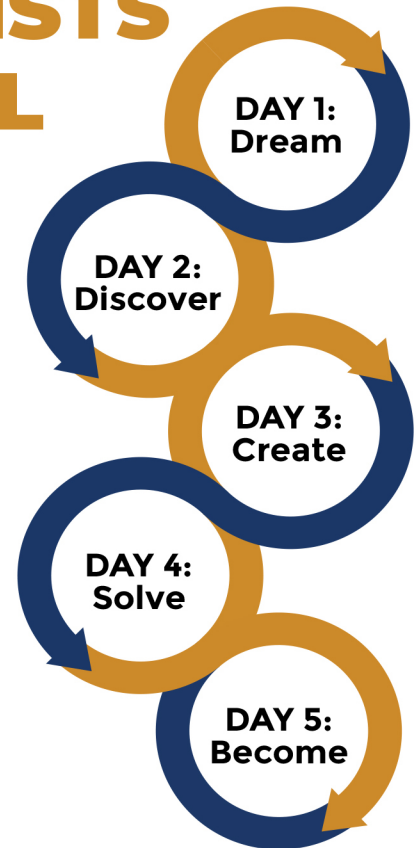
Day 1: Dream

Day 2: Discover

Day 3: Create

Day 4: Solve

Day 5: Become



## Day 1: DREAM

**Theme:** Someone Like Me Belongs in STEM

**Objective:** Break stereotypes

Many township learners think scientists and engineers are “other people.” VUT demonstrates otherwise.

### 4 Key Activities

#### A. Opening Ceremony

- Welcome by VC
- Faculty Dean
- Science Park representative
- SRC

#### B. VUT STEM Exhibition

**Six decades of innovation.**

Major VUT achievements; Science Park; Hydrogen initiatives; Student inventions; Future technologies.

#### C. Panel discussion featuring:

##### People Who Look Like Me

- VUT graduate at Eskom or Arcelor Mital
- Young student engineers
- Woman in STEM
- Entrepreneur who is a VUT graduate
- Township innovator

**Topic:** “I sat where you sit.”

#### D. Inspiration Wall

**Learners write on Post-Its:**

I will become a/an...(Engineer, Doctor, Data Scientist, Pilot, Entrepreneur, Teacher, Researcher.)

**Wall remains throughout the week.**



# STRATEGY 2035+

### Day 2: DISCOVER

**Theme:** Explore the Future

A giant STEM Career Expo where each Faculty hosts interactive stations.

#### 2 Key Activities

##### A. Faculty Village

The Career Expo will showcase advances in Engineering, Robotics, Technology, Coding, Management Sciences, Renewable Energy, Innovation and Entrepreneurship, Mechatronics, Biotechnology, Applied Sciences, Chemistry experiments, Health Sciences, and Medical Technology.

##### B. Science Park Passport

Each learner gets a passport that is stamped at each station. Once a learner completes all stations, they receive a prize.

### Day 3: CREATE

**Theme:** Innovation Starts Here.

#### 2 Key Activities

##### A. Township Innovation Challenge

Teams of learners solve local problems; for example, water shortages, crime, illegal dumping, flooding, load shedding, road safety, public transport safety, youth unemployment.

##### B. Makers Lab

Learners are exposed to 3D printing, virtual reality, laser cutting, Robotics, AI demonstrations, Coding and Electronics.

### Day 4: SOLVE

**Theme:** Science for Society

Strategy 2033+ emphasises socially engaged scholarship.

#### 2 Key Activities

##### A. Community Problem Solving Challenge

Schools compete.

Problem: How would science improve your township?

Solutions could include smart bins, flood warning systems, solar charging stations, water purification, agriculture, digital education.

##### B. STEM Debate

Motion: Science should solve social inequality.

### Day 5: BECOME

**Theme:** Your Journey Starts Today

*This day converts inspiration into applications.*

#### 3 Key Activities

##### A. Future Me Graduation

Every learner receives a VUT National Science Month participation certificate.

##### B. Admissions Village

Immediate application support and NSFAS guidance, residence information, qualification advice, and Career Counselling.

##### C. Future Leaders Pledge

Every learner signs a pledge.

I will use knowledge to improve my community.