SPECTRUM
ADVANCED LEARNING

PARENT PROSPECTUS

SPECTRUM CYBER SECURITY PROGRAMME

# Learn to protect people and organisations online

*Learn to protect people and organisations online: classroom foundations, four weeks with real security teams, and a project that makes a place safer.*

| 6 | 1 | 4 | 1 |
|---|---|---|---|
| weeks | classroom Academy week | industry placements | project and pitch |

One week of classroom foundations, four weeks of industry placements with defenders, one week building and pitching a security plan or campaign.

PREPARED FOR

**Students and parents**

Six weeks · Ages 11–17 · Classroom Academy, four industry placements, project week · Linked to IB ATL, MYP Projects and IBDP CAS

spectrum-learning.com | Information: info@spectrum-learning.com

## How the six weeks work

CLASSROOM · INDUSTRY · PROJECT

| WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 |
|---|---|---|---|---|---|
| **Academy** | **Security Operations** | **Networks and Systems Defence** | **The Human Side of Security** | **Risk, Privacy and Governance** | **Project Week** |
| Classroom: threats, passwords, phishing, privacy and encryption | Placement with a security operations or IT support team | Placement with an IT infrastructure team | Placement with an awareness, HR or communications team | Placement with a risk, compliance or data-protection team | Build and pitch a security plan or campaign |

### Week 1: Academy

Four classroom days with Spectrum tutors build the foundations and prepare students for professional settings.

### Weeks 2–5: Placements

Four days a week with security teams, IT departments, managed service providers and organisations with a security function. Each day mixes a teaching session, time with the team and a hands-on task.

### Week 6: Project

Students design, test and pitch their own solution to a panel of host and Spectrum leaders.

### Fridays

Home days for the Lab Journal and rest.

## A placement day

| Time | Activity |
|---|---|
| 08:30 | Arrival, sign-in, huddle with mentor |
| 09:00 | Teaching session: the day's key idea (Spectrum tutor) |
| 09:45 | Placement session 1: observe, ask, record |
| 11:00 | Break |
| 11:15 | Placement session 2: hands-on defensive task |
| 12:30 | Lunch |
| 13:15 | Skills lab: practise with tools in a safe environment |
| 14:00 | Lab Journal, mentor sign-off |
| 14:30 | Departure |

## Three tracks, one programme

PITCHED TO EVERY AGE

| Track | Ages | IB stage | Big question | What they do |
|---|---|---|---|---|
| **Explorer** | 11–12 | MYP 1–2 | *How do I stay safe online?* | Safe habits, unplugged codes, spotting scams, visual reflections. |
| **Builder** | 13–14 | MYP 3–4 | *How do organisations defend themselves?* | Calculations, logs, checklists, awareness materials. |
| **Architect** | 15–17 | MYP 5 to DP | *How do we manage cyber risk?* | Risk assessment, incident analysis, policy writing, threat models. |

## What students learn each week

| Week | Theme | Inquiry question |
|---|---|---|
| 1 | **Foundations of Cyber Security** | What do defenders protect, and what are the first habits of good security? |
| 2 | **Security Operations** | How do security teams detect and respond to incidents? |
| 3 | **Networks and Systems Defence** | How do organisations protect their networks and systems? |
| 4 | **The Human Side of Security** | How do organisations help people make safe choices? |
| 5 | **Risk, Privacy and Governance** | How do organisations decide which risks matter most, and how do they protect personal data? |
| 6 | **Project Week: Security Plan Pitch** | How can I design, test and pitch a plan that makes a real place safer online? |

## Safe, ethical and IB-connected

OUR COMMITMENTS

### Safety first
One Spectrum supervisor for every 8 students, trained host mentors, risk-assessed sites, no unsupervised work.

### Ethical by design
Approved tools only, no personal data in AI tools, and every security activity is defensive and authorised.

### Real-world learning
Students see professionals at work and complete real, non-confidential tasks.

### IB links
ATL skills, MYP Design and project skills, Service as Action and IBDP CAS evidence.

## Assessment and certificates

| Component | Weight | Evidence |
|---|---|---|
| **Professional conduct** | 15% | Daily mentor rating: punctuality, courtesy, safety, confidentiality |
| **ATL skills growth** | 15% | Weekly self and mentor ratings on five ATL categories |
| **Lab Journal and check-ups** | 20% | Daily journal entries, weekly reflections and the six weekly check-up quizzes |
| **Weekly criterion tasks** | 25% | Week 1–5 deliverables marked on criteria A–D |
| **Project and pitch** | 25% | Week 6 project judged by the panel |

| Certificate | Requirement |
|---|---|
| **Distinction** | 85–100% and at least 22 of 24 days |
| **Merit** | 70–84% and at least 20 days |
| **Pass** | 55–69% and at least 18 days |
| **Participation** | Below 55% or fewer than 18 days, with the project attempted |

Spectrum Advanced Learning is independent and is not endorsed by or affiliated with the International Baccalaureate Organization.

# Joining

NEXT STEPS

| Step | What happens |
|---|---|
| 1. Apply | Application form with a short statement of interest. |
| 2. Meet us | A friendly 10-minute conversation places your child on the right track. |
| 3. Confirm | Consent, medical and photo forms; fee; placement allocation. |
| 4. Prepare | Parent induction evening; Student Handbook and Lab Journal. |

| | |
|---|---|
| **Dates** | |
| **Host organisations** | |
| **Fee and what it includes** | |
| **Places** | |
| **Application deadline** | |
| **Contact** | |

The organiser completes this table for each cohort.

## Explore more with Spectrum

YOUR NEXT STEP

# One partner for every stage of the journey.

Every learner is different. Spectrum finds where each one is, and builds the path to where they want to go.

## Recommended for you

IN-HOUSE · 3.5 WEEKS · 4 DAYS A WEEK

### Skills Studio

Fourteen in-house days of AI, cyber security, office software or public speaking.

ENGLISH AND MATHS

### Mastery

Secure the English and Maths foundations every placement relies on.

PERSONALISED · 6 MONTHS

### Career Pathways

Know your future career? Six personalised months with a specialist mentor.

## A pathway for every stage

| GRADES 1–11 | MYP 1–5 | AGES 10–17 | GRADES 10–12 | AGES 15–18 |
|---|---|---|---|---|
| **Mastery** | **MYP** | **Placements and Skills Studio** | **IB Diploma, SAT and ACT** | **Career Pathways** |

## Why parents choose Spectrum

**Diagnostic first**
Every programme starts by finding exactly where a learner is, so time is spent on what matters.

**Small groups, real attention**
Tutor and supervisor ratios are kept small so every student is known by name.

**Safe by design**
Background-checked staff, clear safeguarding procedures and parents kept informed every week.

**Evidence you can keep**
Journals, portfolios, reports and certificates that schools and universities can see.

**Talk to us.** Book a free consultation through the Spectrum website or ask your Spectrum programme lead. We listen first, then recommend the right pathway.

THE SPECTRUM FAMILY OF PROGRAMMES

# One family. Every stage of learning.

*Every learner is different. Spectrum finds where each one is, and builds the path to where they want to go.*

## Mastery

ENGLISH AND MATHS · GRADES 1–11

Find the exact gap and close it for good, one skill at a time.

**Math Mastery · English Mastery**

## MYP

MIDDLE YEARS PROGRAMME · MYP 1–5

Understand the criteria, meet them with confidence and arrive at eAssessment ready.

**IB MYP Support (Years 1–5) · MYP 5 eAssessment Accelerator**

## IB Diploma

DP1 AND DP2 · GRADES 11–12

Separate SL and HL support for every paper and every component.

**IB Diploma Support · TOK, EE and IA guidance**

## Placements

YOU ARE HERE

SIX WEEKS IN REAL ORGANISATIONS · AGES 10–17

Week 1 Academy, four placement weeks in industry or the community, then a project week.

**JEP Industry · JEP Community Immersion · AI Programme · Cyber Security Programme**

## Skills Studio

IN-HOUSE · 3.5 WEEKS · 4 DAYS A WEEK · AGES 10–17

Fourteen hands-on days on the Spectrum campus: the future skills every student needs.

**AI Studio · Cyber Security Studio · Digital Office Skills · Speak, Debate, Lead**

## Career Pathways

PERSONALISED · 6 MONTHS · AGES 15–18

For students who know their goal: a personal plan, a specialist mentor and real practice.

**Law · Policy and research · Medicine and health · Engineering, business and more**

## SAT and ACT

UNIVERSITY ADMISSIONS · GRADES 10–12

Diagnostic-led preparation, timed practice and a clear target-score plan.

**SAT Preparation · ACT Preparation**

## Teacher Academy

PROFESSIONAL LEARNING · EDUCATORS

Practical training for teachers in IB-style teaching, assessment and future skills.

**1-week Intensive · 3-week Certificate**

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## Start a conversation

Book a free consultation through the Spectrum website or ask your Spectrum programme lead. We will listen first, then recommend the right pathway.

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