



# How ICT contributes to the development of a school

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Vilnius

# Preview



- Description of the school
- The results of an ICT assessment
- The present state
- The future and Dalton 3.0

# Helen Parkhurst Dalton School

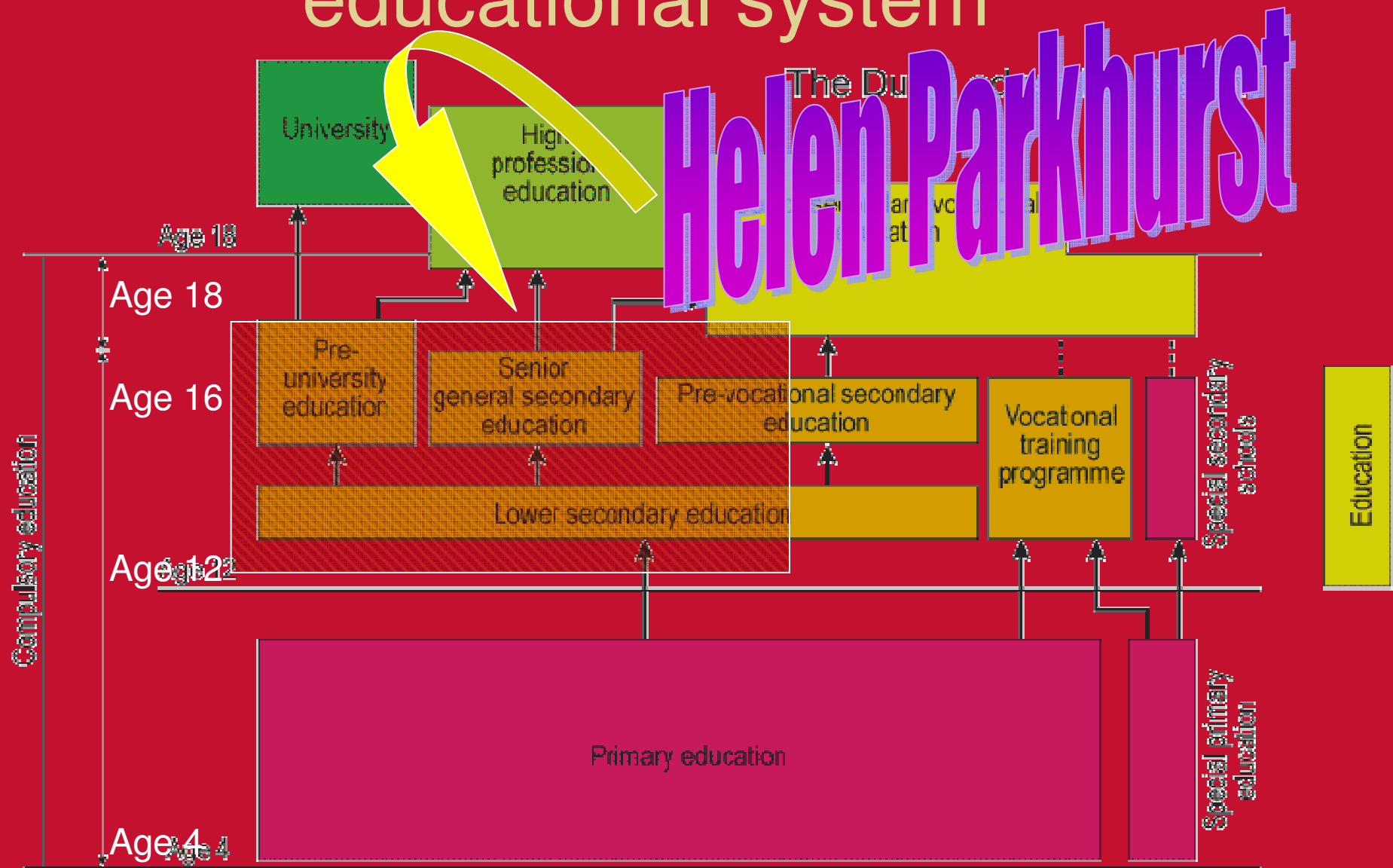




# Helen Parkhurst Dalton School



# Helen Parkhurst in the Dutch educational system



# Helen Parkhurst



## *Dalton principles*

- trust in learners
- responsibility and accountability
- collaborative learning
- focus on competences
- self reflection and feedback

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## Educational profile

- Science
- Sports
- Culture and economics
- ICT, internationalisation and environment
- Interdisciplinary curricula in
  - Humanities*
  - Sciences*
  - Modern languages*
  - Arts*
- 70 minutes lessons
- Four lessons per week free subscription

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## Some figures

- The school has 2050 students
- 180 teachers, 15 student teachers
- 20 educational assistants
- 35 supportive persons
- Five departments
- examination results: ca. 89 % passed
- 450 new pupils arrived this new year



# 3 years ago....



October 2

# The Framework



## Conditions:

- C1. Leadership,
- C2. Infrastructure and access,
- C3. Curriculum planning,
- C4. Quality assurance and improvement

## Use:

- U1. Pupil use,
- U2. The teaching process,
- U3. Administrative use

## Outcome:

- O1. Impact on learning and standards

## Leadership

C1.1 There is a clear vision for the use of ICT

C1.2 There is a strategy to realise the vision

## Infrastructure and access

C2.1 The available resources reflect the needs and vision of the school

C2.2 The deployment of ICT resources enables efficient use of them

C2.3 Support systems optimise the use of ICT

## Curriculum planning

C3.1 Meeting local, regional and national requirements

C3.2 Coherence, balance and consistency

C3.3 New developments in ICT and pedagogy

## Quality assurance and improvement

C4.1 Review and self-evaluation of ICT policy and practice

C4.2 Action planning and implementation

C4.3 Action monitoring and revision

## Pupil use

U1.1 Development of ICT skills

U1.2 Enhancement of learning

## The teaching process

U2.1 Developing pupils' ict capabilities

U2.2 Use of ICT to enhance teaching

U2.3 Teaching staff competence and confidence

## Administrative use

U3.1 Identifying issues impacting learning and teaching

U3.2 Communication is supported.

## Impact on learning and standards

O1.1 Gains in broad learner achievement

O1.2 Effects of ICT use on pupil attainment

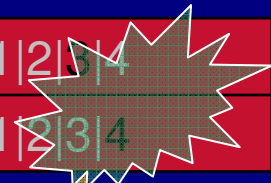
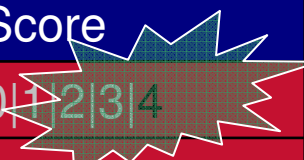


# The Indicators

# The assessment

Leadership	Score
C1.1 Clear vision	0 1 2 3 4
C1.2 Strategy	0 1 2 3 4
Infrastructure and access	Score
C2.1 Available resources	0 1 2 3 4
C2.2 Deployment of ICT resources	0 1 2 3 4
C2.3 Support systems	0 1 2 3 4
Curriculum planning	Score
C3.1 Local, regional and national requirements	0 1 2 3 4
C3.2 Coherence, balance and consistency	0 1 2 3 4
C3.3 New developments	0 1 2 3 4

<b>Quality assurance and improvement</b>	<b>Score</b>
C4.1 Review and self-evaluation	0 1 2 3 4
C4.2 Action planning and implementation	0 1 2 3 4
C4.3 Action monitoring and revision	0 1 2 3 4
<b>Pupil use</b>	<b>Score</b>
U1.1 Development of ICT skills	0 1 2 3 4
U1.2 Enhancement of learning	0 1 2 3 4
<b>The teaching process</b>	<b>Score</b>
U2.1 Developing pupils' ICT capabilities	0 1 2 3 4
U2.2 Use of ICT to enhance teaching	0 1 2 3 4
U2.3 Teaching staff competence	0 1 2 3 4
<b>Administrative use</b>	<b>Score</b>
U3.1 Identifying issues	0 1 2 3 4
U3.2 Communication	0 1 2 3 4
<b>Impact on learning and standards</b>	<b>Score</b>
O1.1 Gains in learner achievement	0 1 2 3 4
O1.2 Effects on pupil attainment	0 1 2 3 4





# After the assessment



- Determination of the long term vision
- School wide teacher training
- Special equipment for the culture groups
- System for learners tracking
- Further development of the DLE
- Use of ICT for reflection and portfolios
- Digital examinations
- Webportal: more involvement parents

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## Some ICT-facts (July 2010)

- 400 computers for educational purposes
- Movable laptop trolleys:  
12 (190 laptops)
- 14 classes with netbooks 1:1
- Ratio: 1 computer to 3 students
- 220 netbooks for teachers



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## Some ICT-facts (July 2010)

- Interactive whiteboards: 25
- All computers connected to the wireless network and to internet
- ICT-working places for teachers
- Computers placed in open learning centres
- 30 i-macs
- Music studios



Homo Zappiens learns differently...



Homo Zappiens Homo Sapiens



**high speed** < > **conventional speed**  
**multi tasking** < > **mono tasking**  
**non linear approaches** < > **linear approaches**  
**iconic skills first** < > **reading skills first**  
**connected** < > **stand alone**  
**collaborative** < > **competitive**  
**active** < > **passive**  
**learning by externalizing** < > **learning by internalizing**  
**instant payoff** < > **patience**  
**fantasy** < > **reality**

# Dalton 3.0



Using netbooks for integral use during the lessons

- Less paper, more flexible digital assignments
- Individual choices and collaborative social learning
- Accommodates personal learning styles
- Using portfolios for reflection and your own storage and window for your results
- Digital testing



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## *Contribution to the Dalton principles*

- trust in learners
- responsibility and accountability
- collaborative learning
- focus on competences
- self reflection and feedback

# A clear vision for the future



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