

# ***Technology Planning for District Leaders***

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## ***Strategies that Work !***



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# Why is Technology Important for K-12 ?

You **MUST** know this  
to understand & implement

*21<sup>st</sup> Century*

## Strategies for Success

# Why ARE we Here ?



Prepare students for Learning...

..... for LIFE !



**90% of jobs** earning over \$25,000 a year  
**require daily use of technology**



# In the workplace:

- **Employees receive assignments electronically**
  - **Online Learning is replacing face-to-face**



# In School:

**Students who receive assignments electronically  
may be better prepared for College & Career**



# On the Job – in College – in K-12

## Paper testing is “The Past”, not “The Future”



# On the Job – in College – in K-12

## Electronic Communication replaces paper







# **Your Technology Plan**

**Prepares Students for Future Success**

# Student Tech Skills Checklist

- **Access Homework Assignments online**
- **Internet Safety**
- **Keyboarding / Typing Speed**
- **Create Documents**
- **Google Docs / Office 365**
- **Online Assessments**
- **Develop higher level skills in content areas**



# YOUR Technology Implementation Roadmap:

- Post Homework Assignments Online

examples are Google Classroom / Schoology – email to Parents

- Post ALL Learning Resources Online

Homework Hints, Study Guides, Terms list, Self-checks, links to videos, etc.

- Establish Classroom Policies

If it's not OK face-to-face, it is not OK online! No use areas, is music allowed?.

- Online Assessments

Item format matching required tests !

- Send Devices Home

1/3 of class period uses technology maximum for most of the curriculum

**Pick one: Google Apps for Education or Office 365**

**Is 1:1 appropriate for early elementary ?**

**YES!**

**Reading skills improve when devices go home**

# Communication\*:



Appropriate for learning & career goals

using **WORDS**

using **IMAGES**

using **NUMBERS**

Including charts and graphs

\*credit to Ned Hill, Ohio State University for this conceptualization

## Emerging Tools

# AR and VR

## Virtual & Augmented Reality



## Expanding Coding

Code.org SCRATCH, CS-First, Java, HTML, etc

## Robotics / Digital Controllers

Makey Makey, etc.

## Maker Space

3D Printers, Design Software, Electronics, etc.

# How to Start:

## Implement **SEQUENTIALLY**

|  |  |   |   |
|--|--|---|---|
| INSTRUCTIONAL RESOURCES                                  | Course <b>minimally uses digital content</b> , resources, and tools to supplement instruction                    | Digital content, resources, and tools <b>expand and enhance</b> the curriculum and content    | Use of digital resources and tools are <b>integral to</b> content, curriculum and instruction |
| ASSESSMENT   | Whole-class assessments, used primarily in the classroom, during the school day as the primary means of feedback | A combination of traditional and online assessments are used inside and outside the classroom | Greater amount of digital, real-time data and feedback allow for individualized instruction   |
| COMMUNICATION<br>(Student / Teacher & Student / Student) | Occurs primarily synchronously and in the physical classroom   | Is a mixture of synchronous & asynchronous and may be in the physical classroom or online     | Occurs primarily asynchronously and online or from a distance                                 |

# Sending Device Home

*significantly*

**Increases Student Engagement !**





## *Success Strategy # 5*

**If it is not OK face-to-face  
It is not OK online**



# Classroom Management Policies

- If it's prohibited face-to-face, its prohibited online
- Teachers must display 'currently allowed' uses
- No-use areas (locker rooms, office) identified
- Discipline guidelines clearly established / explained

# Assessments

Taking online tests is important  
Now – and later



# Assessments should include:

- *In-class and as part of homework*

## Multiple Choice

*More than one correct answer*

## Writing

*Read, then construct a response*

## Charts and Graphs

*Questions based on viewing these*

# ACCOMMODATIONS

for students with special needs:

**Does your online assessment support:**

- Extended Time?
- Text-to-speech (headphones)?
- Test Readers?
- Other supports?

The student's plan take precedence over typical testing protocols, BUT accommodations usually can NOT apply to just ONE specific test.

For example, if a student's plan allows more time to complete ONLINE testing then more time must also be allowed for for ALL testing.

# Teacher Support

- Building level Teams
- Student Teams

Just-in-time & On-Going Support

## Assessments

Taking online tests is important  
Now – and later



**Ohio**  
Earning an Ohio High School Diploma

**Students must:**  
Earn a state minimum of 20 credits in the following subjects.

|                       |           |
|-----------------------|-----------|
| English language arts | 4 credits |
| Mathematics           | 4 credits |
| Science               | 3 credits |
| Social studies        | 3 credits |
| Physical education    | 1 credit  |
| Art                   | 1 credit  |
| Health                | 1 credit  |
| Foreign language      | 1 credit  |
| Community service     | 1 credit  |

**and**

**Students must also:**  
Earn a minimum of 12 points by receiving a State Board of Education diploma.

**Options:**  
Algebra I or Integrated Math I  
Geometry or Integrated Math II  
American Government  
English I  
English II  
Biology  
American History

Each test score earns you up to five graduation points. You must have a minimum of four points in math, four points in English and six points across science and social studies. Your school and district receive grades on the Ohio School Report Cards for all students' scores and participation on state tests.

**OR**

**Industry credential and workforce readiness**  
Earn a minimum of 12 points by receiving a State Board of Education diploma.



## Google Classroom

Prepares Students with LIFE skills

When you

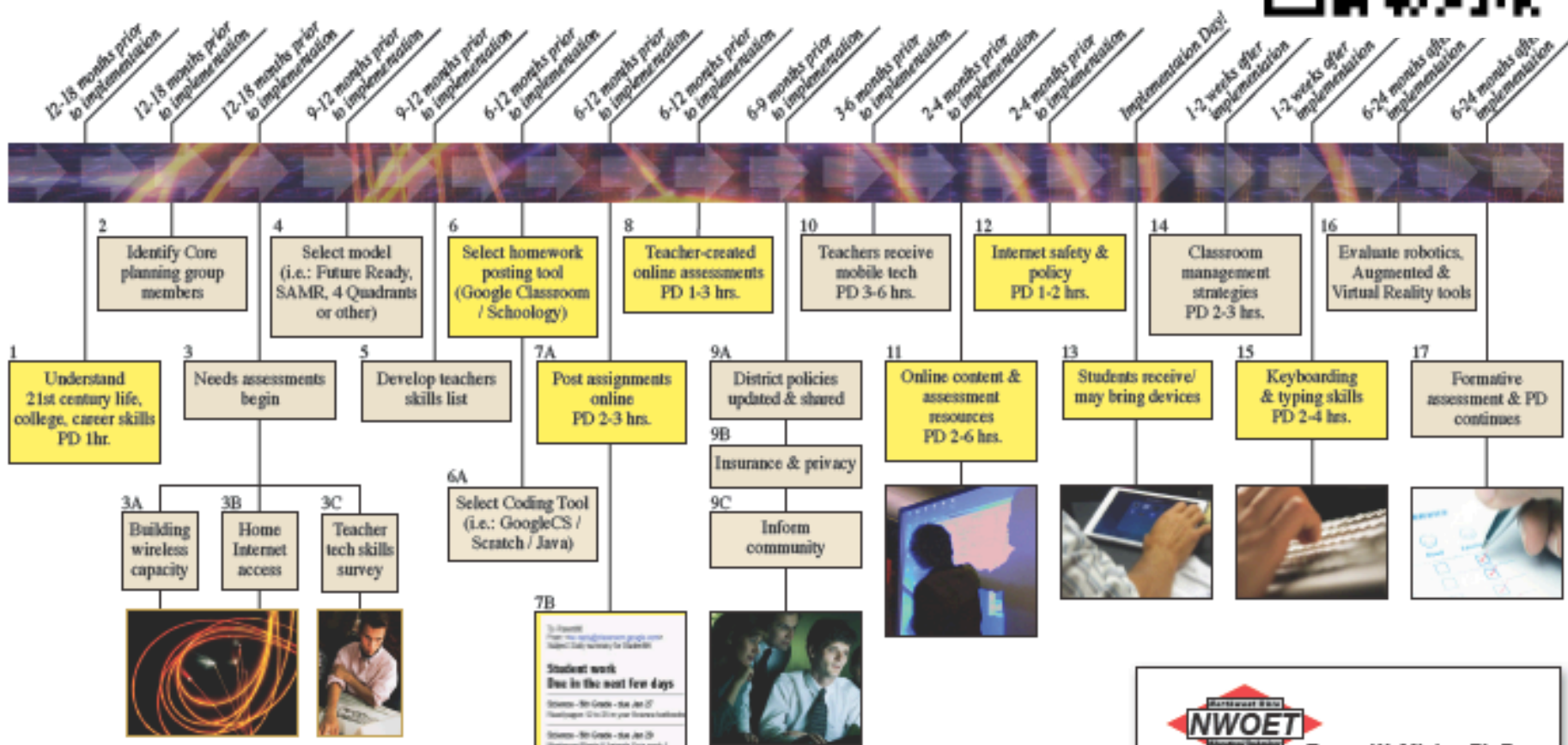
Post Homework Assignments online



# 17 Steps to Success Technology Integration Timeline

By Roger W. Minier, Ph.D., Executive Director, 419-372-7033

This timeline is intended to help effectively integrate technology to support K-12 learning as well as college and career readiness skills with PD recommendations and 1:1 options.



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