OSTP Site Technology Capacity Tool

OKLAHOMA Education

How to Use: To help calculate your school site capacity, please enter the values for each input metric (blue boxes) in the '*Value*' column in the table below. After entering the values, you will notice that the results are updated based on the values you provided. Note: This is an approximation to provide a quantitative picture of device and bandwidth capacity.
See Exemplars on the next pages.

Metrics	Value
Total number of devices at site used for testing	
Total average test size (in MB; this is the same for all grades and contents)	4 MB
District Bandwidth (1 Gbps = 1000 Mbps)	**Mbps**
Total number of tested students at site	
Testing window (in weeks)	5 weeks
Number of tested grades at site	
Tests or sessions given at site	

Results for above input values:

Prerequisite: Convert district bandwidth from Mbps (mega bits per seconds) to MBps (mega byte per seconds) to calculate measurement units

Number of students bandwith will allow

Approx. number of students which can test simultaneously, based on bandwidth and number of devices. Note: This does not take into account bandwidth used by other users (i.e. faculty and staff) during test administration.

Approx. total number of testing sessions

Approx. number test sessions per week

Approx. number of test sessions needed per day, testing 5 days a week

Approx. number of test sessions needed per day, testing 4 days a week

Approx. number of test sessions needed per day, testing 3 days per week

Small School Exemplar

Metrics

Metrics	Value
Total number of devices at site used for testing	20
Total average test size (in MB; this is the same for all grades and contents)	4 MB
District Bandwidth (in Mbps)	50
Total number of tested students at site	60
Testing window (in weeks)	5 Weeks
Number of tested grades at site	5
Tests or sessions given at site	26

This is a K-8 site, so there are 5 online tested grades.

This school has chosen to give only one section of one test each day. Ex: 5th grade ELA is 3 sessions and tested over 3 days

Results for above example value:

	Value
Prerequisite: Convert district bandwidth from Mbps (mega bits per seconds) to MBps (mega byte per seconds) to calculate measurement units	6
Number of students bandwith will allow	94
Approx. number of students which can test simultaneously, based on bandwidth and number of devices. Note: This does not take into account bandwidth used by other users (i.e. faculty and staff) during test administration.	20
Approx. total number of testing sessions	312
Approx. number test sessions per week	62
Approx. number of test sessions per day, testing 5 days a week	12
Approx. number of test sessions per day, testing 4 days a week	16
Approx. number of test sessions per day, testing 3 days per week	21

Although the bandwidth will support 94 test takers simultaneously, the site is restricted to the 20 devices they use for testing.

Since the site only has the technology to test 20 students simultaneously, conducting test sessions 5 days a week or 4 days a week are viable options for this site.

Medium/Large School Exemplar

Metrics | Value

Metrics	Value
Total number of devices at site used for testing	100
Total average test size (in MB; this is the same for all grades and contents)	4 MB
District Bandwidth (in Mbps)	1000
Total number of tested students at site	878
Testing window (in weeks)	5 Weeks
Number of tested grades at site	3
Tests or sessions given at site	7

This is a 6-8 site, so there are 3 online tested grades.

This school has chosen to complete each test in one day, with the exception of Grade 8 ELA. They have elected to complete the writing portion (Section 1) the day after completing the Multiple-choice portion (Sections 2 and 3)

Results for above example value:

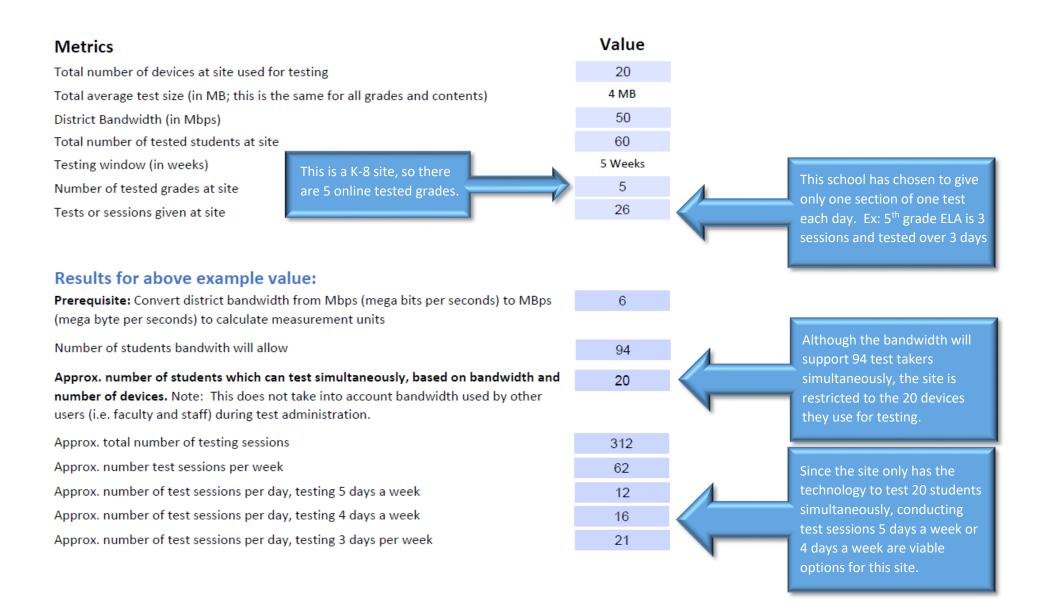|	
Prerequisite: Convert district bandwidth from Mbps (mega bits per seconds) to MBps (mega byte per seconds) to calculate measurement units	125
Number of students bandwith will allow	1,875
Approx. number of students which can test simultaneously, based on bandwidth and number of devices. Note: This does not take into account bandwidth used by other users (i.e. faculty and staff) during test administration.	100
Approx. total number of testing sessions	2,049
Approx. number test sessions per week	410
Approx. number of test sessions per day, testing 5 days a week	82
Approx. number of test sessions per day, testing 4 days a week	102
Approx. number of test sessions per day, testing 3 days per week	137

Although the bandwidth will support more test takers simultaneously, the site is restricted to the 100 devices they use for testing.

Since the site only has the technology to test 100 students simultaneously, conducting test sessions 5 days a week is the only viable option.