# Mode of <br> Instruction <br> During the <br> Pandemio: <br> An Analysis 

@EducatelN

## CONSIDERATIONS

- While Indiana's 2021 dataset is robust, mode of instruction information is incomplete.
- Indiana students experienced significant, widespread impacts to academic performance and learning outcomes.
- Mode of instruction data available is based on attendance records, and does not consider student engagement levels, synchronous v. asynchronous instruction, or instructional platforms.


## DATA

## Data was provided by IDOE, including:

- ILEARN data in English/language arts and mathematics including student demographic data; NWEA; WIDA.
- Mode of Instruction data for students that was merged with ILEARN data. Mode of instruction indicated four types:
- In-person
- Remote or Virtual
- Hybrid (a combination of in-person and remote)
- Virtual School


## SUMMAAYY OF INDIVIDUAL RESULTS

- In-person was the predominant mode of instruction.
- In-person instruction was, on average, the uniformly best mode of instruction for students, consistently leading to less academic impact than hybrid and virtual.
- Growth rates associated with virtual/remote instruction were very poor, especially in mathematics.
- Racially and ethnically diverse students were much more likely to receive virtual/remote instruction than white students.


## SUMMARY OF SOHOOL RESULTS

- The vast majority of schools in Indiana conducted in-person instruction.
- Nearly $50 \%$ of schools had greater than $90 \%$ of students in person all year.
- Nearly $80 \%$ of schools had greater than $60 \%$ of students in person all year.
- Conversely, there was a small minority of schools in Indiana who were mostly virtual.
- About $5 \%$ of schools had greater than $50 \%$ of students whose mode of education was virtual.


## SUMMARY OF SOHOOL RESULTS

- As the following charts show, the 5\% of schools with greater than $50 \%$ of students learning virtually tended to be larger schools serving lower-achieving students.


## STUDENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of <br> Instruction | ELA |  | Mathematios |  |
| :--- | ---: | ---: | ---: | ---: |
| In-Person | 325,608 | Percentage | Count | Percentage |
| Remote | 65,619 | $13.5 \%$ | 325,415 | $66.8 \%$ |
| Hybrid | 20,828 | $4.3 \%$ | 65,512 | $13.4 \%$ |
| Virtual School | 4,078 | $0.8 \%$ | 20,816 | $4.3 \%$ |
| Missing <br> Information | 70,948 | $14.6 \%$ | 71,274 | 14.65 |

## STUDENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of Instruction | Asian |  | Black |  | Hispanic |  | Multiracial |  | White |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Percentage | Count | Percentage | Count | Percentage | Count | Percentage | Count | Percentage |
| In-Person | 14,731 | 54.2\% | 47,421 | 39.9\% | 76,559 | 57.7\% | 31,037 | 61.4\% | 479,750 | 77.7\% |
| Remote | 5,946 | 21.9\% | 40,593 | 34.2\% | 27,016 | 20.4\% | 8,100 | 16.0\% | 49,176 | 8.0\% |
| Hybrid | 2,951 | 10.9\% | 5,214 | 4.4\% | 6,144 | $4.6 \$$ | 2,680 | 5.3\% | 2,680 | 0.4\% |
| Virtual School | 78 | 0.3\% | 1,079 | 0.9\% | 708 | 0.5\% | 543 | 1.1\% | 5,697 | 0.9\% |
| Missing Information | 3,489 | 12.8\% | 24,471 | 20.6\% | 22,251 | 16.8\% | 8,195 | 16.2\% | 80,468 | 13.0\% |

## STUDENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of Instruction | Grade 3 |  | Grade 4 |  | Grade 5 |  | Grade 6 |  | Grade 7 |  | Grade 8 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Percent | Count | Percent | Count | Percent | Count | Percent | Count | Percent | Count | Percent |
| In-Person | 119,720 | 75.3\% | 118,642 | 75.0\% | 118,735 | 73.8\% | 104,192 | 63.7\% | 97,186 | 58.3\% | 92,548 | 55.8\% |
| Remote | 18,696 | 11.8\% | 18,760 | 11.9\% | 20,717 | 12.9\% | 22,944 | 14.0\% | 24,733 | 14.8\% | 25,281 | 15.2\% |
| Hybrid | 657 | 0.4\% | 720 | 0.5\% | 2,157 | 1.3\% | 10,333 | 6.3\% | 14,123 | 8.5\% | 13,654 | 8.2\% |
| Virtual School | 1,042 | 0.7\% | 998 | 0.6\% | 1,179 | 0.7\% | 1,349 | 0.8\% | 1,686 | 1.0\% | 1,889 | 1.1\% |
| Missing Information | 18,856 | 11.9\% | 19,028 | 12.0\% | 18,078 | 11.2\% | 24,844 | 15.2\% | 28,891 | 17.3\% | 32,523 | 19.6\% |

## STUDENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of <br> Instruction | Free Meals |  | Reduced Price Meals |  | Paid Meals |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| In-Person | Percentage | Count | Percentage | Count | Percentage |  |
| Remote | 744,947 | $61.6 \%$ | 40,215 | $70.6 \%$ | 361,765 | $71.9 \%$ |
| Hybrid | 15,546 | $18.6 \%$ | 6,964 | $12.2 \%$ | 49,460 | $9.8 \%$ |
| Virtual | 3,977 | $1.0 \%$ | 2,115 | $3.7 \%$ | 23,771 | $4.7 \%$ |
| School |  |  |  |  |  |  |

## STUEENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of <br> Instruction | Special Education |  | General Education |  |
| :--- | ---: | ---: | ---: | ---: |
| In-Person | 101,007 | Percentage | Count | Percentage |
| Remote | 18,885 | $12.9 \%$ | 546,521 | $67.3 \%$ |
| Hybrid | 5,339 | $3.7 \%$ | 111,693 | $13.8 \%$ |
| Virtual School | 1,545 | $1.1 \%$ | 66,119 | $4.4 \%$ |
| Missing <br> Information | 19,495 | $13.3 \%$ | 111,260 | $0.8 \%$ |

## STUDENT PARTICIPATION BY MODE OF INSTRUCTION

| Mode of Instruction | Limited English Proficient |  | Fluent English Proficient |  | Not an ELL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Percentage | Count | Percentage | Count | Percentage |
| In-Person | 44,733 | 63.7\% | 27,600 | 53.1\% | 574,712 | 68.8\% |
| Remote | 12,252 | 17.4\% | 11,561 | 22.2\% | 106,650 | 12.8\% |
| Hybrid | 3,470 | 4.9\% | 4,375 | 8.4\% | 33,597 | 4.0\% |
| Virtual School | 121 | 0.2\% | 164 | 0.3\% | 7,836 | 0.9\% |
| Missing Information | 9,651 | 13.7\% | 8,316 | 16.0\% | 112,680 | 13.5\% |

## ELA PERFORMANCE BY MODE OF INSTRUCTION

| Mode of Instruction | Grade 3 |  | Grade 4 |  | Grade 5 |  | Grade 6 |  | Grade 7 |  | Grade 8 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP |
| In-Person | $\begin{array}{r} 41.3 \% / \\ 5441 \end{array}$ | --- | $\begin{array}{r} 42.3 \% / \\ 5475 \end{array}$ | --- | $\begin{array}{r} 42.0 \% / \\ 5503 \end{array}$ | 41 | $\begin{array}{r} 43.0 \% / \\ 5527 \end{array}$ | 42 | $\begin{array}{r} 44.1 \% / \\ 5550 \end{array}$ | 42 | $\begin{array}{r} 46.9 \% / \\ 5566 \end{array}$ | 43 |
| Remote | $\begin{array}{r} 26.3 \% / \\ 5413 \end{array}$ | --- | $\begin{array}{r} 26.1 \% / \\ 5441 \end{array}$ | --- | $\begin{array}{r} 27.4 \% / \\ 5474 \end{array}$ | 28 | $\begin{array}{r} 29.8 \% / \\ 5501 \end{array}$ | 31 | $\begin{array}{r} 32.7 \% / \\ 5527 \end{array}$ | 34 | $\begin{array}{r} 35.9 \% / \\ 5544 \end{array}$ | 36 |
| Hybrid | $\begin{array}{r} 29.2 \% / \\ 5421 \end{array}$ | --- | $\begin{array}{r} 26.4 \% / \\ 5446 \end{array}$ | --- | $\begin{array}{r} 40.1 \% / \\ 5493 \end{array}$ | 34 | $\begin{array}{r} 43.9 \% / \\ 5526 \end{array}$ | 37 | $\begin{array}{r} 45.4 \% / \\ 5550 \end{array}$ | 39 | $\begin{array}{r} 47.9 \% / \\ 5565 \end{array}$ | 41 |
| Virtual School | $\begin{array}{r} 27.9 \% / \\ 5411 \end{array}$ | --- | $\begin{array}{r} 28.5 \% / \\ 5444 \end{array}$ | --- | $\begin{array}{r} 30.3 \% / \\ 5474 \end{array}$ | 29 | $\begin{array}{r} 32.5 \% / \\ 5507 \end{array}$ | 30 | $\begin{array}{r} 34.6 \% / \\ 5531.7 \end{array}$ | 39 | $\begin{array}{r} 39.7 \% / \\ 5554 \end{array}$ | 45 |
| Missing Information | $\begin{array}{r} 35.6 \% / \\ 5429 \end{array}$ | --- | $\begin{array}{r} 36.7 \% / \\ 5462 \end{array}$ | --- | $\begin{array}{r} 37.8 \% / \\ 5493 \end{array}$ | 37 | $\begin{array}{r} 34.6 \% / \\ 5509 \end{array}$ | 34 | $\begin{array}{r} 36.3 / \\ 5532.4 \end{array}$ | 35 | $\begin{array}{r} 39.9 \% / \\ 5550 \end{array}$ | 37 |

## MATH PERFORMANGE BY MODE OF INSTRUCTION

| Mode of Instruction | Grade 3 |  | Grade 4 |  | Grade 5 |  | Grade 6 |  | Grade 7 |  | Grade 8 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP | \% Prof/ Mean SS | Median SGP |
| In-Person | $\begin{array}{r} 52.7 \% / \\ 6427 \end{array}$ | --- | $\begin{array}{r} 47.7 \% / \\ 6465 \end{array}$ | --- | $\begin{array}{r} 42.4 \% / \\ 6488 \end{array}$ | 35 | $\begin{array}{r} 38.2 \% / \\ 6513 \end{array}$ | 34 | $\begin{array}{r} 34.6 \% / \\ 6524 \end{array}$ | 36 | $\begin{array}{r} 32.3 \% / \\ 6539 \end{array}$ | 38 |
| Remote | $\begin{array}{r} 29.2 \% / \\ 6381 \end{array}$ | --- | $\begin{array}{r} 24.5 \% / \\ 6416 \end{array}$ | --- | $\begin{array}{r} 21.1 \% / \\ 6440 \end{array}$ | 14 | $\begin{array}{r} 17.4 \% / \\ 6458 \end{array}$ | 15 | $\begin{array}{r} 18.3 \% / \\ 6482 \end{array}$ | 23 | $\begin{array}{r} 15.1 \% / \\ 6483 \end{array}$ | 21 |
| Hybrid | $\begin{gathered} 38.1 \% / \\ 6401.6 \end{gathered}$ | --- | $\begin{array}{r} 26.9 \% / \\ 6429 \end{array}$ | --- | $\begin{array}{r} 34.9 \% / \\ 6471 \end{array}$ | 18 | $\begin{array}{r} 34.8 \% / \\ 6505 \end{array}$ | 23 | $\begin{array}{r} 34.7 \% / \\ 6522 \end{array}$ | 31 | $\begin{array}{r} 31.8 \% / \\ 6532 \end{array}$ | 30 |
| Virtual School | $\begin{array}{r} 38.8 \% / \\ 6381 \end{array}$ | --- | $\begin{array}{r} 26.6 \% / \\ 6413 \end{array}$ | --- | $\begin{array}{r} 19.5 \% / \\ 6437 \end{array}$ | 12 | $\begin{array}{r} 16.5 \% / \\ 6452 \end{array}$ | 14 | $\begin{array}{r} 16.4 \% / \\ 6477 \end{array}$ | 22 | $\begin{array}{r} 12.1 \% / \\ 6473 \end{array}$ | 22 |
| Missing Information | $\begin{array}{r} 43.8 \% / \\ 6409 \end{array}$ | --- | $\begin{array}{r} 39.4 \% / \\ 6445 \end{array}$ | --- | $\begin{array}{r} 35.5 \% / \\ 6471 \end{array}$ | 25 | $\begin{array}{r} 25.7 \% / \\ 6480 \end{array}$ | 21 | $\begin{array}{r} 25.7 \% / \\ 6498 \end{array}$ | 27 | $\begin{array}{r} 23.9 \% / \\ 6509 \end{array}$ | 29 |

## @EducatelN

## THANK YOU!

