Problem: Changing the Structure of Education

How can we address these challenges?
- Maintain or improve content in curriculum
- Preserve or improve communication
- Be mindful of limited resources (funding, time, workload for schools and students)

Kim Heinzer, Teacher at BASIS Peoria
Benefits of Hybrid Learning

<table>
<thead>
<tr>
<th></th>
<th>Instructor Support</th>
<th>Student Interaction and Collaboration</th>
<th>Satisfaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hybrid</td>
<td>4.66</td>
<td>4.23</td>
<td>4.21</td>
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<tr>
<td>Distance</td>
<td>3.59</td>
<td>3.12</td>
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</tr>
</tbody>
</table>
Problem: Implementing Hybrid Learning
Solution

Fig. 1: Model of Distanced Seating Arrangement

Fig. 2: Model of Genetic Algorithm Process
Impacts

Increase communication and collaboration
Maximize in-school time
Social distancing and safety
Keep friends together
Implementing hybrid learning will enable an environment of **communication** and **collaboration** in the classroom.

By applying the established technology of **genetic algorithms** to the new logistical problems with hybrid learning, administrators can create new kinds of scheduling that focus on **balancing safety protocols and interactive education**.
References

- Slide 2: Photo Credit: Mrs. Heinzer
- Slide 3: Biggs, Mary Jo Gracia. “Comparison of Student Perceptions of Classroom Instruction: Traditional, Hybrid, and Distance Education.” *Turkish Online Journal of Distance Education*, vol. 7, no. 2, Apr. 2006, eric.ed.gov/?id=ED494388.
- Slide 5: Photo Credit: Mrs. Heinzer
- Slide 5: Photo Credit: Mrs. Trower (BASIS Peoria Head of Operations)
- Slide 6: Figure 1 Photo Credit: Original Model