Improvement Science in Practice: Finding solutions through iterative testing
Fall 2020 Cohort Focus Areas

Improvement Science in Practice: Finding solutions through iterative testing
participants will choose a problem area in which to focus their improvement activity during
course. The four problem areas described below have been identified for the Fall 2020 Cohort.

Participants should choose to focus in an area that is directly connected to their current work
activity, and where they will have the agency to test out small changes on a regular basis
throughout the course. As part of the registration process, participants will be asked to rank
these problem areas in order of preference and indicate if one or more are not applicable to
their role in their context.

1. **Providing effective feedback to adults**

Effective, actionable feedback can be an important resource for improving practice. Feedback
relationships may exist between between a coach/mentor and a coachee/mentee, between a
supervisor and employee, and between peers, and that feedback may be shared as part of a
formal process or an informal interaction. Providing feedback in a way that it is experienced as
supportive, useful, timely, and meaningful is most likely to support growth but can be
challenging to deliver in any system. This group will focus on practices related to giving
feedback to adults to improve professional practice. Participants who opt into this group should
be in a position to regularly provide feedback to others in any of the capacities described above.

2. **Increasing student attendance**

Students need to be present to access all of the benefits of interactive teaching, whether
attending class in person or in a virtual teaching environment, and students who miss school
suffer academically. Student attendance, and in particular chronic absence, is influenced by
factors in the school learning environment as well as those that extend into students' lives
outside of school. While some of those factors may be best addressed through systemic
solutions, individual instructors can also take action in ways that influence whether students are
present for instruction consistently. This group will focus on those actions that an individual
teacher can to take to identify students who are accumulating absences before the issue
becomes chronic, and to respond to students in ways that motivate their consistent attendance

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1 Teams of four or more that are currently working on an improvement project or within a NIC and have developed
a Theory of Practice Improvement (or driver diagram) may seek to adopt that as their area of focus for course
activities. Please contact professionallearning@carnegiefoundation.org with the subject line “ISP Focus Area” to
pursue this option.

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and participation in learning opportunities. Participants who opt into this group should be in a position to regularly engage with a consistent group of students and to both track and act in response to their presence in the learning environment.

3. Student agency for learning

To successfully navigate the challenges of the world that students are facing, students need to build the abilities to think and reason critically, to problem solve, and to make sense of non-routine tasks. In order to thrive academically, students must choose to persist in their efforts in the face of rigorous learning challenges, or act with agency. There are a number of factors that contribute to student agency, including students’ sense of belonging, understanding that their learning has value, specific strategies and know-how to succeed academically, and the belief that they can learn and achieve. This group will focus on building student agency to engage in rigorous learning challenges by developing a growth mindset and improving a sense of belonging. Participants in this group should be in a position to regularly interact with students in learning settings around formal assignments.

4. Providing effective teacher feedback for student learning

High quality classroom teaching involves the continual assessment of student learning through the application of a range of practices and tools to monitor student understanding. In addition, exemplary teachers not only adjust their instruction in response to their students’ learning needs, but also find ways to deliver feedback to students to improve students’ performance on a given task or learning goal. Effective feedback can be a powerful tool to help motivate and catalyze student learning. However, research and practice have shown that the content, manner, and timing in which teacher feedback is delivered to students determine the effects -- positive or negative -- that the feedback has on a student’s ability and motivation to use it to advance their learning. Participants in this group will focus on the practices and processes associated with the delivery of effective feedback to students. Participants who opt into this group should be in a position to regularly formatively assess student performance and provide feedback for learning.