**Supplementary Data**

**Figure Legends**

**Figure 1.2**

Figure 1.2. Comparison of student performance on exam questions correlated with Flipgrid prompts for Unit 2. (+) Prompt (black bars) = students assigned the prompt; (-) Prompt (white bars) = students not assigned the prompt. Data are mean ± SD (n = 1,100). \* = p< 0.05 vs. (-) Prompt (see Table 3 for corresponding p-values). Two of the 10 prompts were excluded from these data as they were not assigned in all four semesters.

**Figure 1.3**

Figure 1.3. Comparison of student performance on exam questions correlated with Flipgrid prompts for Unit 3. (+) Prompt (black bars) = students assigned the prompt; (-) Prompt (white bars) = students not assigned the prompt. Data are mean ± SD (n = 1,100). \* = p< 0.05 vs. (-) Prompt (see Table 3 for corresponding p-values).

**Figure 1.4**

Figure 1.4. Comparison of student performance on exam questions correlated with Flipgrid prompts for Unit 4. (+) Prompt (black bars) = students assigned the prompt; (-) Prompt (white bars) = students not assigned the prompt. Data are mean ± SD (n = 1,100). \* = p< 0.05 vs. (-) Prompt (see Table 3 for corresponding p-values).

**Figure 1.5**

Figure 1.5. Comparison of student performance on exam questions correlated with Flipgrid prompts for Unit 5. (+) Prompt (black bars) = students assigned the prompt; (-) Prompt (white bars) = students not assigned the prompt. Data are mean ± SD (n = 1,100). \* = p< 0.05 vs. (-) Prompt (see Table 3 for corresponding p-values). Four of the 10 prompts were excluded from these data as they were not assigned in all four semesters.

**Figure 2.2**

Figure 2.2. Comparison of Flipgrid prompt scores with correlated exam questions for Unit 2. Data are mean ± SD. Prompts 1-10 have a positive correlation and 8/10 prompts (excluding Prompt 5 and Prompt 9) have an R2 ≥ 0.50 (see Table 4 for the number of students (n), slope, y-intercept, and R2 values). Two of the 10 prompts were excluded from these data as they were not assigned in all four semesters.

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**Figure 1.2**

**A picture containing application

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**Figure 1.3**

**A picture containing text

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**Figure 1.4**

**A picture containing application

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**Figure 1.5**

**A picture containing application

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**Figure 2.2**

**Diagram, engineering drawing

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**Figure 2.3**

**Diagram

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**Figure 2.4**

**Diagram

Description automatically generated**

**Figure 2.5**

**Diagram, engineering drawing

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