**Stained Glass Performance Task\_Classwork**

CC.SS. 7.G.4 Know the formulas for the area and circumference of a circle and use them to solve problems

The students in Ms. Pam’s art class are designing a stained-glass window to hang in the school entryway. The window will be 2 feet tall and 5 feet wide. They have drawn the design below:

They have raised $100 for the materials for the project. The colored glass (shaded regions) costs $5 per square foot and the clear glass (white region) costs $3 per square foot. The materials they need to join the pieces of glass together costs 10 cents per foot and the frame costs $4 per foot. Will the students have enough money for the project?



**Chapter 8 Stained Glass Performance Task\_Classwork**

CC.SS. 7.G.4 Know the formulas for the area and circumference of a circle and use them to solve problems

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| **Will the students have enough money for the project?**CLAIM (What is the answer?) EVIDENCE (What work did you do to derive your answer?)REASONABLE (Write a couple sentences to explain your evidence) |

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| **How much more do they need, or how much will they have left over?**CLAIM (What is the answer?) EVIDENCE (What work did you do to derive your answer?)REASONABLE (Write a couple sentences to explain your evidence) |