Independent Reading Visual Representation

Pacing:

Week 1:

- ❏ Finish reading Summer Independent Reading Book if needed
- ❏ Independent Reading Book Choice for Mini-PBL approved by Mrs. Bolus
- ❏ Fiction Plot Chart and Planning completed for chosen book
- ❏ Choose Learning Target Focus of Visual Representation (on Plot Chart)
- ❏ Weekly Progress Conference with Mrs. Bolus

Week 2:

- ❏ Complete Orthographic Sketch Design with measurements
- ❏ Choose materials for visual representation
- ❏ Choose digital fabrication machines for representation and list on Pacing Guide Steps #4 and #5.
- ❏ Update/make final changes to Orthographic Sketch Design for conference
- ❏ Weekly Progress Conference with Mrs. Bolus

Week 3: (include dates here)

- ❏ Choose materials for cardboard prototype
- ❏ Complete cardboard prototype with labeled design elements
- ❏ Complete analysis of prototype and list modifications on Pacing Guide Step #3
- ❏ Complete summary for Independent Reading Book for presentation
- ❏ Weekly Progress Conference with Mrs. Bolus

Week 4: (include dates here)

- ❏ Complete Digital Fabrication Element #1
- ❏ Complete analysis of Dig. Fab elements and list modifications on Pacing Guide Step #4
- ❏ Weekly Progress Conference with Mrs. Bolus

Week 5: (include dates here)

- ❏ Complete Digital Fabrication Element #1
- ❏ Complete analysis of Dig. Fab elements and list modifications on Pacing Guide Step #4
- ❏ Choose final text evidence from Independent Reading Book for representation
- ❏ Weekly Progress Conference with Mrs. Bolus

Week 6: (include dates here)

- ❏ Complete construction of Visual Representation piece
- ❏ Make final edits to summary/presentation materials
- ❏ Film FlipGrid Practice Video for feedback from Mrs. Bolus
- ❏ Schedule presentation date with Mrs. Bolus

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Digital Fabrication Progression:

Culminating Event - During the extended block day Independent Reading Time.

- ❏ Whole-Class Book Share Presentation of the chosen Independent Reading Book and Digitally-Fabricated Representation Piece.

Independent Reading Book Visual Representation Project Expectations:

- The stages of digital fabrication must be completed in order, and student CANNOT move onto the next stage until approved by Mrs. Bolus and signed off on your Pacing Guide.
- Students will be able to use the digital fabrication tools during the extended block day reading time and lunch if needed - must sign out Mrs. Bolus's Fab Lab pass in order to go to the Fab Lab.
- Must include at least 2 elements of digital fabrication in the final piece.
- Pacing Guide will be used in the Weekly Progress Check Conferences.

Step # 1- Book Approval and Fiction Plot Chart and Planning

- ❏ **Book Approval** - Choose the Independent Reading Book for Representation.
  - ❏ Chosen Book Title: _____
  - ❏ Approved by Mrs. Bolus _____
- ❏ **Fiction Plot Chart** - Complete Fiction Plot Chart and Planning for the chosen book.
  - ❏ Mrs. Bolus sign off of Step #1 during Conference _____

Step # 2- Orthographic Sketch of Design

- ❏ This is the initial sketch design stage for your digitally-fabricated representation
- ❏ Students may use paper or a digital drawing resource for their initial design.
- ❏ This should be an orthographic drawing: http://www.technologystudent.com/designpro/ortho1.htm
  - ❏ Isometric view (full view)
  - ❏ Front view
  - ❏ Side view
  - ❏ Plan (top) view Include measurements and all elements of your final piece.
  - ❏ Include a materials list and measurements (in inches).
  - ❏ Label elements to be digitally fabricated and which machines to be used.
- ❏ Mrs. Bolus sign off of Step #2 during Conference _____

Step # 3 - Cardboard Prototype

- ❏ This is a small (50% scale) 3D cardboard prototype of your digitally-fabricated representation.
- ❏ Students may use cardboard, glue, tape, and other simple materials.
- ❏ The cardboard prototype must match the design in the orthographic sketch.

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- ❏ Must include all the elements of the final design.
- ❏ Issues/Modifications: _____
  _____
  _____
- ❏ Update initial sketch design with modifications for Step #3 approval.
- ❏ Mrs. Bolus sign off of Step #3 during Conference _____

Stage # 4 - Digital Fabrication Element #1:

- ❏ Dig. Fab. Machine - _____
- ❏ Parts to be constructed on this machine: _____
- ❏ Materials Needed/Used: _____
  _____
- ❏ Issues/Modifications: _____
  _____
  _____
- ❏ Mrs. Bolus sign off of Step #3 during Conference _____

Stage # 5 - Dig Fab Element 2:

- ❏ Dig. Fab. Machine - _____
- ❏ Parts to be constructed on this machine: _____
- ❏ Materials Needed/Used: _____
  _____
- ❏ Issues/Modifications: _____
  _____
  _____
- ❏ Mrs. Bolus sign off of Step #4 during Conference _____

Stage # 6 - Final Construction:

- ❏ Materials Needed/Used: _____
- ❏ Must match the final sketch design from Stage #3
- ❏ Must include text evidence in representation.
- ❏ Mrs. Bolus sign off of Step #5 during Conference - _____
  - ❏ FlipGrid Practice Presentation Filmed - feedback from Mrs. Bolus
  - ❏ Visual Representation Approved for Presentation
  - ❏ Scheduled Presentation Date - _____