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 Independent Reading Book for presentation

**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](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 - ________________