



Technology Education

Curriculum 2018-2019

PREAMBLE TO TECH PROGRAM

Technology as a Tool for:

Coordination - [Pre/Transitional-Kindergarten](#)

Introduction - [Kindergarten](#)

Integration - [First Grade](#)

Creation- [Second Grade](#)

Exploration- [Third Grade](#)

Communication- [Fourth Grade](#)

Presentation- [Fifth Grade](#)

Imagination- [Middle School](#)

PLANETBRAVO PREAMBLE TO CURRICULUM OUTLINE

- If time permits, please fill out a seating chart before your first tech class. We have blank lab charts to hand out, or nametags on desks in your classroom help for cart classes. Charts will not only help us get to know your students' names, but will also allow us to establish a routine and ensure a speedy start to each lesson. Thank you!
- We are here for you, and we love integrating what you're teaching in the class with what we teach in tech. We will check in with you a couple weeks before each integrated unit begins so we may get a topic to accompany the tech project. Not every tech topic can be integrated with the content from your class, but we aim to have many of them blend.
- Don't let the learning end when the lab time is over! You may access websites and summaries of each lesson on our school jump page (accessible through the customized link provided to your school).
- Although some lessons are more advanced than others, each lesson is connected to a technology skill standard and as many academic content standards as possible.
- Keyboarding is such an important skill, and we wish we had the appropriate time to focus on this within our classes. Research has shown that keyboarding proficiency is achieved when a student is able to practice every day for about 20-30 minutes for at least 5 weeks under supervision (monitored hand placement). This is a great homework assignment for 3rd-5th graders and a fun thing they can do in the classroom if you have Chromebooks/laptop carts.
- We understand that it can be disappointing when students do not finish assignments in the allotted tech time. We aim to have the students exposed to as many important topics as possible throughout the year, but because we only see them once a week in most schools, we usually pick a time to move on when more than 70% of the students have completed the objectives. Most of the assignments for Kinder through 1st grade classes are "one and done" lessons, but can be extended per your request.
- Your PlanetBravo instructor will be available to assist with any tech requests. Although they might not be able to come instantly, they will address your problem in a timely manner depending on their day and class schedule. You can submit your requests through your school's customized link or www.planetbravo.com/help.

PlanetBravo Technology Lab



TK/PK Table of Contents - Year of COORDINATION

- **Unit 1: Mousing & Keyboard Skills**
 - PK.01 - Introduction and Mousing Skills
 - PK.02 - Clicking and Dragging
 - PK.03 - Arrow Keys
 - PK.04 - Putting It All Together
 - PK.05 - Keyboard Comfort
 - PK.06 - All Keyboard
 - PK.07 - Letter Recognition with Keys
- **Unit 2: Letters and Numbers**
 - PK.08 - Listening and Letters
 - PK.09 - Letter Sounds
 - PK.10 - Connecting the Dots ABC
 - PK.11 - Paint and Following Directions
 - PK.12 - Letters
 - PK.13 - ABCs Online
 - PK.14 - Language Arts
 - PK.15 - Language Arts & Math Mix
 - PK.16 - Early Math - Counting Animals
 - PK.17 - Numbers
 - PK.18 - Math Online
 - PK.19 - Number Games
 - PK.20 - Number Games 2
 - PK.21 - Step-by-Step Math
- **Unit 3: Color and Pattern**
 - PK.22 - Colors
 - PK.23 - Coloring
 - PK.24 - Sorting and Classifying Objects
 - PK.25 - Telling a Story
 - PK.26 - Matching
 - PK.27 - Matching Patterns and Shapes
- **Unit 4: Skills Review**
 - PK.28 - ABCya! Games
 - PK.29 - Sorting
 - PK.30 - Mixed Online Games
 - PK.31 - Word Processing Basics
- **Year Review**
 - PK.32 - Year Wrap and Assessment



Kindergarten Table of Contents - Year of INTRODUCTION

- **Unit 1: Introduction and Computer Interaction**
 - K.01 - Introduction to the Year / Lab / Basic Mouse Games
 - K.02 - Continued Mousing
 - K.03 - Arrow Keys
 - K.04 - Letter Finding on the Keyboard
 - K.05 - Sorting and Pattern
- **Unit 2: Skills Review**
 - K.06 - Alphabet and Case Games
 - K.07 - Number Order and Sequencing
 - K.08 - Order and More Than / Less Than
 - K.09 - Creative Story Art
- **Unit 3: Computer Graphics**
 - K.10 - Graphics - Geometric Mosaics
 - K.11 - Numbers and Stamps
 - K.12 - Storytelling Pictures
 - K.13 - Rhyming and Before/After
 - K.14 - Story Order
 - K.15 - Predictions in Stories
 - K.16 - Data / Graphing
 - K.17 - Reaching 10 Through Images
 - K.18 - Illustrating Math Word Problems
- **Unit 4: Letter Recognition**
 - K.19 - Keyboard Comfort
 - K.20 - Keyboard Comfort 2
 - K.21 - Keyboard Comfort 3
- **Unit 5: Word Processing**
 - K.22 - Alphabet / Sight Word Typing
 - K.23 - Kinder Formatting
 - K.24 - CVC Fun
 - K.25 - Highlighting
 - K.26 - Rhyming and Dragging/Cutting/Pasting
 - K.27 - Final Word Processing Unit
- **Unit 6: Internet Navigation and Online Creations**
 - K.28 - Going Online - Intro to Safety
 - K.29 - Internet Search by Letter
 - K.30 - Online Creations (Creating simple Word Searches)
 - K.31 - Animated Stories
- **Year Review**
 - K.32 - Year Wrap and Assessment



First Grade Table of Contents - Year of INTEGRATION

- **Unit 1: Academic Games**
 - 1.01 - Computer Basics and Keyboarding Games
 - 1.02 - Simple Keyboarding Games
 - 1.03 - Letter Sound Games
 - 1.04 - Math Attack (Addition)
 - 1.05 - Math Attack 2 (Strategy and Logic)
- **Unit 2: Computer Graphics**
 - 1.06 - Online Art - Drawing with AI
 - 1.07 - Online Art - Basic Graphics Tools
 - 1.08 - Online Art - Academic Drawing
 - 1.09 - Geometric Photo Overlay
 - 1.10 - Art with Shapes
 - 1.11 - Directions and Positions - Listening
- **Unit 3: Integrated Word Processing**
 - 1.12 - Compound Words + Formatting
 - 1.13 - Math / Shifting the + Sign
 - 1.14 - Copy and Paste
 - 1.15 - Caps / Punctuation and Formatting
 - 1.16 - Adjectives and Formatting
 - 1.17 - Writing Instructions with Illustrations
 - 1.18 - Reading Comprehension Project
- **Unit 4: Keyboarding**
 - 1.19 - Keyboarding Focus
 - 1.20 - Keyboarding Focus 2
 - 1.21 - Keyboarding Focus 3
- **Unit 5: Intro to 3D modeling**
 - 1.22 - Intro to 3D Modeling and Makers Empire 3D
 - 1.23 - Modeling with 3D Geometric Shapes
 - 1.24 - Modeling Structures
 - 1.25 - Continue Modeling Structures
 - 1.26 - 3D Modeling Wrap-Up
- **Unit 6: Online Story Creations**
 - 1.27 - Scholastic Story Starter
 - 1.28 - Online Creations - Comics
 - 1.29 - Online Creations - StoryJumper Book
 - 1.30 - StoryJumper Wrap Up
 - 1.31 - Sound Exploration and Song Creation
- **Year Review**
 - 1.32 - Year Wrap and Assessment



Second Grade Table of Contents - Year of CREATION

- **Unit 1: Introduction Weeks and CORE 4**
 - 2.01 - First Day Introductions and Storytelling
 - 2.02 - CORE 4 - Keyboarding Catch-up (Reviews and Games for classroom/home)
 - 2.03 - CORE 4 - Online Safety Week
 - 2.04 - CORE 4 - Internet Navigation Essentials (Review) - Research
 - 2.05 - CORE 4 - Word Processing Essentials (Review) - Analysis
- **Unit 2: Animation (Intro to Coding)**
 - 2.06 - Back to Creation: Animations
 - 2.07 - Scratch Introduction - Character Speaks on a Topic
 - 2.08 - Scratch - Animating Movement to Support the Story
 - 2.09 - Scratch - Adding Sound and Interactivity to Enhance the Story
 - 2.10 - Scratch - Culmination - Wrap and Share
- **Unit 3: Publication Design**
 - 2.11 - Templates 101
 - 2.12 - Digital Images 1 - Collecting Images Safely
 - 2.13 - Digital Images 2 - Formatting in Processors
 - 2.14 - Writing Prompts 1 - Pics4Learning Topic
 - 2.15 - Writing Prompts 2 - StoryBird
 - 2.16 - Acrostic Poems
 - 2.17 - Acrostic Poems Wrap-up and Completion
 - 2.18 - Sensory Details - Formatting
- **Unit 4: PowerPoint Slideshows**
 - 2.19 - Intro to PowerPoint Collages
 - 2.20 - Gathering Images - Continue "Story"
 - 2.21 - PowerPoint Wrap Up
- **Unit 5: Audio Narratives**
 - 2.22 - Script Writing
 - 2.23 - Creating a Visual Element
 - 2.24 - Recording and Importing
 - 2.25 - Audio Narrative Wrap Up
- **Unit 6: Photo-Manipulation and Collages**
 - 2.26 - Interactive Posters
 - 2.27 - Online Creations - Picasso Faces
 - 2.28 - Online Creations - Layers in Editing
 - 2.29 - Photo Editing - Touch-ups
 - 2.30 - Photo Collages
 - 2.31 - Word Collages - (Mother's Day)
- **Year Review**
 - 2.32 - Year Wrap and Assessment



Third Grade Table of Contents - Year of EXPLORATION

- **Unit 1: Assessments, Responsible Internet Use and Search Engine Scavenger Hunts**
 - 3.01 - First Day Introductions and Exploration (Maps)
 - 3.02 - CORE 4 - Keyboarding Catch-up (Reviews and Games for classroom/home)
 - 3.03 - CORE 4 - Online Safety
 - 3.04 - CORE 4 - Internet Navigation Essentials (Review) - Research
 - 3.05 - CORE 4 - Word Processing Essentials (Review) - Analysis
- **Unit 2: Basics of Cloud-Based Documents (Composing and Sharing)**
 - 3.06 - Google Docs 101
 - 3.07 - Google Docs 2 - Sharing
 - 3.08 - Google Docs 3 - Sharing and Composing
- **Unit 3: Proofing Tools and Shortcuts**
 - 3.09 - Proofing Tools - Spell Check
 - 3.10 - Thesaurus (Google Docs)
 - 3.11 - Keyboard Shortcuts (Google Docs and OS)
 - 3.12 - Google Draw Intro
 - 3.13 - Google Tools
- **Unit 4: Computer Hardware, Troubleshooting Techniques**
 - 3.14 - Hardware
 - 3.15 - Troubleshooting
 - 3.16 - Hardware / Troubleshooting Jeopardy
- **Unit 5: Research and Online Brochures**
 - 3.17 - Brochure Unit Kick-Off (Simple Templates)
 - 3.18 - Layout and more (Google Docs)
 - 3.19 - Brochure
 - 3.20 - Brochure Continued
 - 3.21 - Brochure Wrap Up
- **Unit 6: Animation**
 - 3.22 - Research Introduction (Responsible, Focused Collection)
 - 3.23 - Research Continued / Outlining our Slideshows
 - 3.24 - Animatron Basics
 - 3.25 - Animatron Tween Animations
 - 3.26 - Crafting the Story
 - 3.27 - Wrap-up and Presentations
- **Unit 7: Programming**
 - 3.28 - Intro to Animation Tools - Scratch online
 - 3.29 - Advanced Animation with Scratch
 - 3.30 - Advanced Scratch Programming (If Statements)
 - 3.31 - Scratch Calculators (Variables)
- **Year Review**
 - 3.32 - Year Wrap and Assessment



Fourth Grade Table of Contents - Year of COMMUNICATION

- **Unit 1: Introduction Weeks**
 - 4.01 - First Day Introductions and Communication Activities
 - 4.02 - CORE 4 Assessment - Mixed Essentials (Word Processing, Internet Nav)
 - 4.03 - The Need for Keyboarding - Epitomized (Paragraph Fun - Margins, Spacing)
- **Unit 2: Typing - CORE FOCUS - Community Project**
 - 4.04 - Keyboarding Kick-off / Logins
 - 4.05 - Keyboarding Check-in - Assess Progress
 - 4.06 - Keyboarding Progress
 - 4.07 - Keyboarding Progress 2
 - 4.08 - Keyboarding Wrap-up - **SPEED TESTS**
- **Unit 3: Online Communication**
 - 4.09 - Online Safety and Etiquette
 - 4.10 - Cyberbullying 101
 - 4.11 - Email Essentials
 - 4.12 - Advanced Online Communication (App and Chat integration - Safety focus)
- **Unit 4: Basic Python Programming**
 - 4.13 - Intro to Python Input/Output Statements
 - 4.14 - Python Variables
 - 4.15 - Python if/else Evaluations
 - 4.16 - Python Programming Wrap-Up
- **Unit 5: Web Design**
 - 4.17 - Website Planning (Google Docs)
 - 4.18 - Website Planning cont.
 - 4.19 - Website Creation in Weebly
 - 4.20 - Weebly 2 - Elements
 - 4.21 - Weebly 3 - Images and Links
 - 4.22 - Website Deadline Day
- **Unit 6: Podcasting and Sound/Music Creation**
 - 4.23 - Podcasting Intro (Essentials of Word Processing - Double-spacing/Margins)
 - 4.24 - Podcast Planning (Script Writing - More Essentials)
 - 4.25 - Recording Day - Intro to Recording Tools
 - 4.26 - Recording Day 2 - Music and Sound Effects
 - 4.27 - Editing Everything Together
 - 4.28 - Podcast Wrap Up - Exporting, Uploading, and Sharing
- **Unit 7: Spreadsheets (Research and Analysis)**
 - 4.29 - Intro to Spreadsheets and Graphs
 - 4.30 - Research Day - Class Topic
 - 4.31 - Analyzing Data from Research (Sorting, Graphing, Comparing)
- **Year Review**
 - 4.32 - Year Wrap and Assessment



Fifth Grade Table of Contents - Year of PRESENTATION

- **Unit 1: Assessments, Keyboarding, and Google Collaboration**
 - 5.01 - First Day Introductions and Presentations
 - 5.02 - Core 4 Essentials - Keyboarding Show-Off - Tools for Community Support
 - 5.03 - Core 4 Essentials - Netiquette Review
 - 5.04 - Core 4 Essentials - Internet Navigation Essentials - Research
 - 5.05 - Core 4 Essentials - Word Processing Essentials - Analysis
 - 5.06 - File Types
- **Unit 2: 3D Modeling**
 - 5.07 - Tinkercad Intro
 - 5.08 - Tinkercad Modeling
 - 5.09 - Tinkercad Modeling cont.
 - 5.10 - Tinkercad Wrap Up
- **Unit 3: Python**
 - 5.11 - Python Programming Review
 - 5.12 - Interactive Paint with Python
 - 5.13 - Interactive Paint with Python cont.
 - 5.14 - Interactive Paint Wrap Up
- **Unit 4: Movie Production - Cyber Bullying PSAs**
 - 5.15 - Movie Kick-Off: Script Planning
 - 5.16 - Script Planning 2
 - 5.17 - Logging Footage and Shot Types
 - 5.18 - Movie First Day Edit
 - 5.19 - Movie Titles and Transitions
 - 5.20 - Movie Editing - Tunes and Final Touches
 - 5.21 - Movie Editing Wrap Up
- **Unit 5: Multimedia Slideshow Creation**
 - 5.22 - Presentation Research
 - 5.23 - Prezi Intro
 - 5.24 - Prezi Work and Progress
 - 5.25 - Prezi Presentation Day
- **Unit 6: Timelines**
 - 5.26 - Timeline Research
 - 5.27 - Sutori Intro and Work
 - 5.28 - Sutori Wrap Up
- **Unit 7: Animation Presentation**
 - 5.29 - Picture-Based Animation Planning
 - 5.30 - Assembly Edit and Voice Over
 - 5.31 - Final Edits, Wrap Up, and Share
- **Year Review**
 - 5.32 - Year Wrap and Assessment

PlanetBravo Technology Lab



Middle School Table of Contents - Year of IMAGINATION

- **Intro**
 - Theme of the Year: Imagination
- **Unit 1: Javascript on Glitch (HTML and CSS)**
 - Glitch Remix
 - Top Ten List
 - All About Me Avatar Card
 - Building Blocks with Animation
 - Silly Story Creator
 - Interactive Story
 - Design Portfolio
- **Unit 2: Build Your Own Digital Assistant**
 - Intro to BYODA and Actions on Google
 - Trivia
 - Small Talk
 - Madlibs
 - Number Guesser
 - Compliment Generator
- **Unit 3: 2D Game Design in Construct 3**
 - Intro and Game Planning
 - Level Design
 - Behaviors
 - Properties
 - Enemy Movement
 - Collisions
 - Positions
 - Lives
 - You Win Game Over
 - Sound
 - New Levels/Scrolling
 - Publish Game and Showcase
- **Unit DC: Cyberbullying**
 - Cyberbullying and its Consequences
 - Cyber Safety and Responsible Use
 - Cyber Safety and Inappropriate Messaging