ICT Integration

2nd Grade

McGraw Elementary, Fort Collins, CO USA





Transdisciplinary Theme: Who we are

Central Idea: People can learn skills to develop their wellbeing.

Lines of Inquiry:

- 1. Developing healthy habits (physical, emotional, nutritional)
- 2. Skills that impact well-being

Learning	PSD	ICT skills	Applications	PYP
engagements	technology	(PSD Technology	and devices	transdisciplinary
	standard/s	Operations and		and ICT skills
Create collages that	Creativity and	Concepts) • Insert pictures	Pixie or	+Creating
illustrate what makes	Innovation	and stickers	Inspiration	+Synthesis
you well-balanced		 Paint brush 	·	+Non-verbal
		and paint bucket	Mouse and	communication
		 Type into a text 	keyboard	+ Writing
		box	Digital	
		 Delete, edit, move and resize typing, 	camera (to	
		text boxes,	take pictures	
		pictures and	of each other	
		stickers	to insert	
		 Save to and open from folder on the 		
		server		
Develop and analyze	Research and	Create and enter	Excel, Word	+Investigating
tables and charts that	information	data into a table	or Open	+Organizing
illustrate daily eating	fluency	Edit data in table	Office Calc.	+ Analysis
habits	Critical Thinking,	cells		+ Evaluation + Viewing
	problem solving	Format a tableConvert a table		+ Collecting,
	and decision	into a chart		Recording,
	making	 Print table and 		Organizing and
		chart		Interpreting data
		Save to and open		
		from folder on the server		
Compare the nutrition,	Research and	Use websites and	Culture	+ Investigating
exercise, sleep and	information	online collaboration	Grams	+ Organizing
recreation habits of	fluency	sites to conduct		+ Communicating
children in other countries to our own	Critical Thinking,	research and share	online food	+ Collaborating + Organizing
Countiles to our own	problem-solving	ideas Navigate to	pyramid websites from	+ Becoming
	and decision	shared bookmarks	various	responsible
	making	on the McGraw	countries	digital citizens
	0	website		+ Respecting others
	Communication and	Type data,	pbworks, ePals or	+ Cooperating + Reading
	collaboration	questions and ideas into a shared	Google Docs	+ Presenting
	23.102.01.011	table or web page	2009.0 2000	+ Safety
	Digital			+ Codes of behavior
	citizenship			+ Interpreting data



Transdisciplinary Theme: How the world works Central Idea: Forces and motion are used in our lives and impact society.

- Lines of Inquiry:

 1. How forces affect motion (pushes, pulls, gravity, friction, inertia)

 2. How humans use forces and motion in their lives

Learning engagements Engage in online simulations to explore	PSD technology standard/s Creativity and Innovation	ICT skills (PSD Technology Operations and Concepts) Navigate to	Applications and devices Roller Coaster	PYP transdisciplinary and ICT skills +Investigating +Creating
the impact of various types of forces on motion	Critical thinking, problem solving and decision making	shared bookmarks on the McGraw website • Manipulate variables in Flash animation video	Physics Games: Gravity Master, Fantastic Contraption Mouse and keyboard	+Observing +Analysis +Synthesis +Application
Research and share how people use simple machines and understanding of forces and motion to design machines that make work easier	Research and information fluency Communication and collaboration	 Navigate to shared bookmarks on the McGraw website Use table of contents and search function to navigate online database Copy and paste photos into folder on the server (using control + C and control + V) Insert photos into a document Basic word processing skills 	Worldbook Online Mouse and keyboard Pixie or Google Docs presentation Headphones and Read Please (for students who need assistance reading from WorldBook)	+ Investigating + Communicating + Comprehension + Reading + Viewing + Writing + Presenting
Create diagram and an accompanying advertisement for a proposed machine that will do work for students	Creativity and innovation	 Use drawing and shapes tools Basic word processing skills Delete, edit, move and resize typing, text boxes, and drawings Save to and open from folder on the server 	Pixie Word or Open Office Writer Keyboard and mouse	+ Creating + Communicating + Application + Presenting



Transdisciplinary Theme: How we organize ourselves

Central Idea: People create organizing systems within a community to aid interdependence.

Lines of Inquiry:

- 1. The reasons people form communities.
- 2. The need for laws and rules.
- 3. Areas for citizens to live and work.

compare different areas of a community (commercial, residential, industrial, rural, recreational) as they appear and are	nformation luency Critical thinking, problem solving and decision making	Concepts) Type, copy and paste information into search bar (using control + C and control + V) Use zoom and navigation controls to explore Google Earth	Google Earth Excel, Word or Open Office Calc. Mouse and keyboard	+Investigating +Organizing +Comprehension +Synthesis +Writing +Organizing data + Interpreting data
		 Enter and edit data in a table Save to and open from folder on the server 		
text and narration that illustrates/describes the difference between one area of a community as it is organized in our local community and a different community	Research and information luency Creativity and innovation and collaboration	Paint brush and paint bucket Type into a text box Delete, edit, move and resize typing, text boxes, pictures, stickers and drawings Save to and open from folder on the server Upload drawing to Website (if using Voice Thread, pbworks or ePals) Create, edit, delete voice recordings Use headphones to listen to voice recordings	Pixie Mouse and keyboard Microphone and headphones Voice Thread, pbworks or ePals (if sharing with a wider audience or collaborating with a class in a different community)	+ Investigating + Creating + Communicating + (Collaborating) * + (Becoming responsible digital citizens) * + (Respecting others) * + Viewing + Presenting + Analysis + (Codes of behavior) * * If sharing this project online and/or collaborating with students from another school



Transdisciplinary Theme: Where we are in place and time

Central Idea: Communities develop over time.

- Lines of Inquiry:

 1. A study of a local community.

 2. Similarities and differences of two communities.
- 3. Changes in the environment of a community.

Learning	PSD	ICT skills	Applications	PYP
engagements	technology standard/s	(PSD Technology Operations and Concepts)	and devices	transdisciplinary and ICT skills
Use an online collaboration site to pose questions about and the results of investigation into the development of our local community as compared to other communities (domestic and international)	Communication and collaboration Research and information fluency Digital citizenship	 Create, edit, delete voice recordings Use headphones to listen to voice recordings Download, copy, paste photos into folder on the server Upload photos to online collaboration area Upload profile drawing, icon or photo to online collaboration area Digitally manipulate (crop, apply filters, resize) photos to upload to collaboration area Post spoken/typed questions and comments 	Voice Thread, pbwiki or ePals Microphone and headphones Mouse and keyboard Gimp, Pixie, Microsoft Photo Editor (photo editing programs)	+ Investigating + Communicating + Collaborating + Becoming responsible digital citizens + Formulating questions + Presenting research findings + Acquisition of knowledge + Comprehension + Respecting others + Speaking + Listening + Reading + Writing + Viewing + Presenting
Research and take notes about the history and development of our local community	Investigating Organizing Becoming responsible digital citizens	 Navigate to shared bookmarks on the McGraw website Navigate and search within websites Basic word processing skills Use own words to record information 	Fort Collins history websites Microsoft Word or Open Office Writer Mouse and keyboard	+ Investigating + Organizing + Communicating + Becoming responsible digital citizens + Acquisition of knowledge + Comprehension + Collecting data + Recording data + Reading + Writing