# Dive Into Digital Project

Students will work in teams of two to four to create a digital product to exhibit at the end of camp. These digital products could be an infographic, a MadPad, a video of them singing or lip-dubbing a song, a green screen video, etc. Their topics could include: STEM careers, water in their area, the properties of water, water pollution, etc. Students should be given examples and an introduction to the applications they will be using.

## Discovery Education Board Builder

If you have access to Discovery Education, the Discovery Education Board Builder is a platform for students to create digital stories using both the rich media resources from within Discovery Education as well as student created work. It's a simple three step creative process:

1. Students create and download video. They collect original video using Flipcams, smart phones, tablets, and other devices. Students select editable video or audio clips from the Discovery Education library. They download their content and the editable Discovery Education content.



2. Students use software to construct a video mashup.
3. Students create a Board within Discovery Education and upload digital resources, including the video mashup, to the Board. Teachers then approve the Board for viewing by a broader audience.

**Student Project Ideas:**
- Create a non-fiction video book about water.
- Digitize the STEM Camp Notebook by creating a Board which includes pictures and video clips.
- Take pictures and video footage during an Engineering Challenge and then create a digital science lab report using Board Builder.

Facilitator's Resources:
> How to Make A Non-Fiction Video Book
> Student Sample - Hands-On Activity: Food to Fuel
> Student Example Physics (9-12)
> Student Sample - Building a Boat Project (3-5)

## MadPad

MadPad is an iPad, iPhone, and iPod app.  With MadPad HD you are invited to "remix your life" by recording sights and sounds from your everyday surroundings, creating a unique way to record and remix everyday life into incredible, beat-oriented performance pieces.

**Student Project Ideas:**
- Draw pictures or find images of the water vocabulary terms they are learning each day. Record each one in a separate MadPad square - the students can position the camera to video the picture and say the word at the same time - for example: find a map of a watershed and say the name of the watershed.
- Write questions and answers related to each day's camp focus.  Number the questions and answers, for example Q1, A1, Q2, A2, etc.  Record each question and answer separately to create an interactive.

Facilitator's Resources:
> MadPad Used By Algebra Class includes Student Project Samples
> Includes How to Use MadPad and Ideas

## Infographic

An infographic is a graphic representation of data, information, or knowledge.  Samples of online tools that can be used to create an infographic are http://visual.ly/ and http://infogr.am/

**Student Project Ideas:**
- Create an infographic using data related to water resources.
- Create an infographic about water conservation.
- Create an infographic on a STEM career(s) featured during the week that incorporates data and information from online resources such as http://www.onetonline.org/.

**Facilitator's Resources:**
> Kathy Schrock's Guide - Infographics
> Good to Better Infographics
> Sample - Benefits of Having Your Own Private Water Supply


## Video/Green Screen Video

Student-produced digital videos are an effective active learning tool. A green screen video allows you to place yourself into videos. This is the same technique used in weather forecast broadcasts.

**Student Project Ideas:**
- Create a special news report on the importance of water.  Using green screen video technique, students should record their newscast and superimpose it on appropriate background videos and/or images.
- Create a STEM water related career interview video.
- Make music video performing movements to *The Shallows* song.
- Create a paperslide video to *The Shallows* song.

Facilitator's Resources:
> Sample - Green Screen Weather News