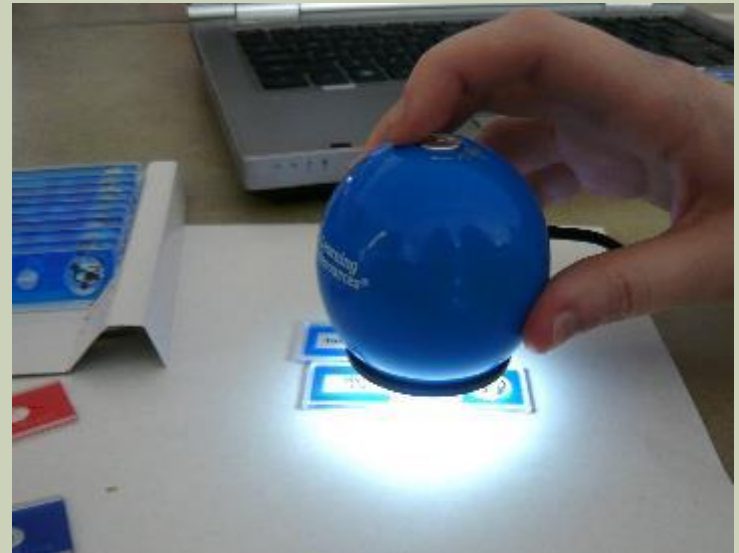# TECHNOLOGY TOOLS WORKSHOP

WWW.WINTHROP.EDU/ITC

ITC Withers 307

ZOOMY MICROSCOPE

- Small microscope used to explore items close up
- Connects to computers via USB cable
- Requires specific software
- Use with prepared slides or everyday objects
- Encourages hands-on investigation
- Great for lab reports, presentations, and authentic assessment of digital portfolios

STIKBOTS

- Used to create green screen projects with students
- Additional accessories and stikbot pets are available
- Requires App to make Stikbot video
- [ITC Green Screen/Stop Motion Animation Info](#)
- [Stikbot Studio](#)
  - Requires Stikbot Studio App
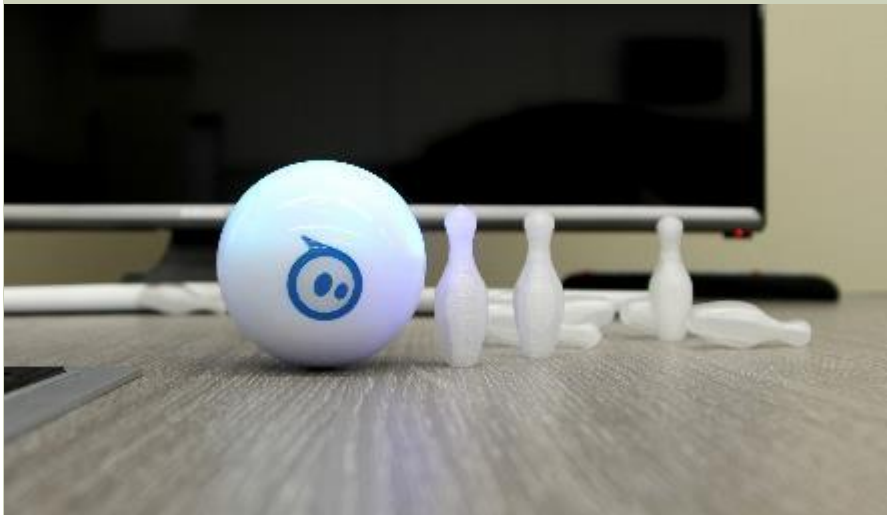
GREEN SCREEN WITH DOINK APP

- Easy to create green screen videos and images from iPad
- Requires DoInk app: allows you to combine photos and videos from camera roll with live images from iPad
- Enables you to tell a story, explain an idea, and express yourself in creative and unique ways

More apps for Green Screen: Animation & Drawing by Do Ink, Stop Motion, FlipBook Lite, iMotion

SPHEROS

- Round robot that can be programmed or driven by students
- Compatible with iPad, iPod Touch, iPhone, etc.(refer to http://www.sphero.com/devices)
- The Sphero App
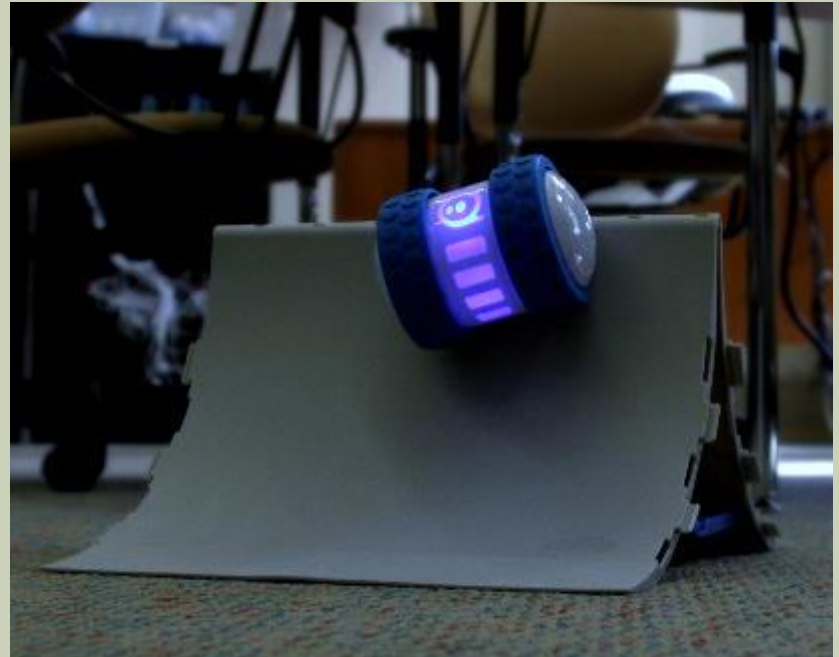- Sphero Video – Spheros in Schools
- ITC Sphero and Ollie Info

Main App: Sphero App
Additional Apps: RollingDead, SpheroGolf, ColorGrab, Sphero Edu, Chromo, Exile, MacroLab

OLLIES

- Cylindrical robot that can be programmed or driven by students
- Compatible with iPad, iPod Touch, iPhone, etc
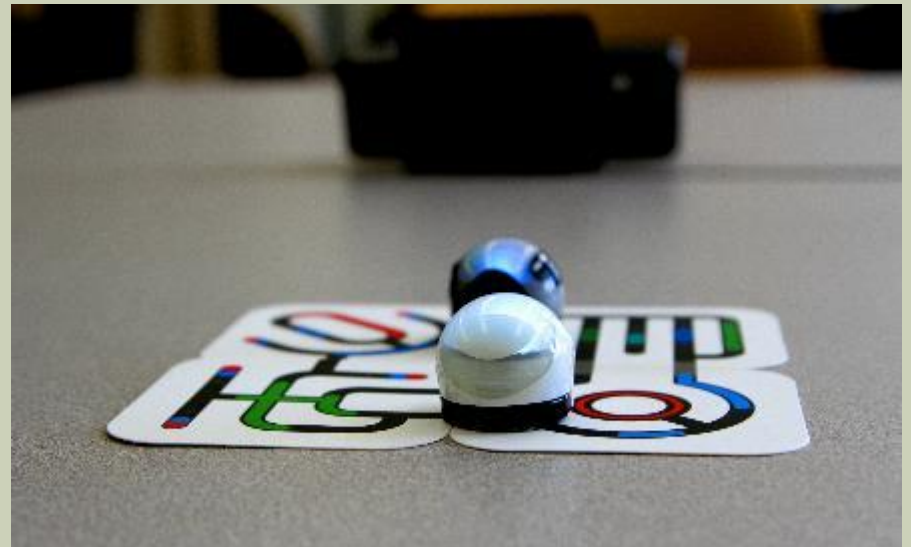- What is Ollie?

Main App: Ollie App

OZOBOT BITS

- Guide your little robot through immersive adventures with markers and color codes
- Robot can be programmed through various apps as well as using colored markers
- Graph paper, markers, and other assorted items may be checked out upon request
- How to Use Ozobot Bits
- ITC Ozobot Information

Apps: OzoGroove, Ozobot

OZOBOT EVOS

- Works the same as the ozobot bits or can be used interactively with each other
  - They can talk to each other
  - Both are programmed with markers
  - Works better with app
- Comes with various skins
  - Ex: Marvel Avengers

Apps: Ozobot, Ozobot Evo

VR HEADSETS

- Used to explore Virtual Reality Apps
- Use your own phone or iPods, or check out one of our red iPods to use with them
- Device worn over your eyes
- Blocks out all external light and shows you an image screen right in front of your eyes
- Goal: to immerse you in the game
- ITC Virtual Reality Information

VR Headset Apps: Expeditions, Cardboard Camera, USA Today, GSVExplorer

AR CARDS

- 4 different card sets that can be checked out: Animal 4D+, Space 4D+, Octaland 4D+, and Dinosaurs 4D+
- Each set requires an App allowing you to explore such things as the solar system in a new and unique way
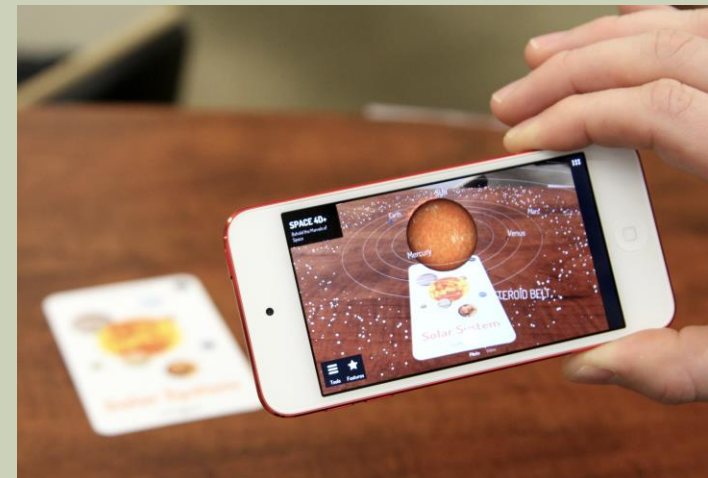- ITC Augmented Reality Info

Animal Apps: Animal 4D+

Space Apps: Space 4D+
Octaland Apps: Octaland 4D+

Dinosaur Apps: Dinosaur 4D+

AR BOOKS

- The ITC currently has 10 AR Books
- Each requires a different app
- Products will work with iPhone, iPod, iPad, and Androids

LIST OF AR BOOKS

- List of AR Books:
  - **iStorm:** explore the surface of planet Earth. Unleash a world of wild weather. App: iStormAR

  - **iSolarSystem:** Drive the Mars Rover around your floor, Ride the Lunar Elevator to the moon, Explore the planets and Beyond. App: iSolarSystemAR

  - **iScience:** Explore the wonders of science such as splitting atoms in the palm of your hand and discovering how much energy you need to knock down a wall. App: periodic table

  - **Bugs:** Explore life in the undergrowth and read astonishing facts about the extraordinary insect world. App: iBugsAR

LIST OF AR BOOKS CONTINUED

- **ABC Animals:** Alphabet in Motion, brings alphabet to live through paint, audio, and video. App: abc Animals AR

- **Curious Pearl Science Girl:** sidebars you can scan with your smartphone, videos to learn more about matter. App: Capstone 4D

- **Goldilocks and the Three Bears, Jack and the Beanstalk, The Three Little Pigs, and Little Red Riding Hood:**
  - Read then look for special pages
  - These pages contain a special icon
  - Four 3D games and experiences that are weaved into the storyline
  - Apps are available through the incredebooks website

AR POSTERS

- There are 5 different AR posters within the ITC
- Each poster requires an App
- Hover your camera over the posters and watch it come to life using Augmented Reality Technology
- Use your touchscreen to activate 3D
  visual interactions

AR POSTER: USA CAPITALS AND PRESIDENTS

- Play exciting games and discover facts about the 44 presidents
- Test knowledge of the US Capitals and the founding fathers
- Explore key points in history and interact and learn about all 50 states

App: USA Map

AR POSTER: SOLAR SYSTEM

- Blast off on an out-of-this-world adventure with this interactive Solar System Chart
- Play exciting games and discover fascinating facts about out solar system and its planets
- Voyage throughout the galaxy and interact with planets, moons, asteroids, comets, spacecraft, and more

App: PoparSolarSystem

AR POSTER: HUMAN ANATOMY

- Learn and discover fascinating facts about the male and female human body
- Check your knowledge of the human anatomy and how your body works
- Interact and explore with all the systems including the skeletal, muscular, cardiovascular, nervous system, and so much more
- Go inside the human body and play with amazing 3D models, watch educational videos, and listen to informative read-alongs

App: HumanAnatomy

BOARD GAMES

- **Code Master:**
  - Travel to a world in search of power crystals.
  - Along the way, use programming logic to navigate the map
  - Only one specific sequence of actions will lead to success
  - Builds planning, sequential reasoning, and problem-solving skills
  - Great for Elementary-High School level
  - How to Play Code Master
- **Littlecodr:**
  - Introduces students to codes in a simple way
  - Students can lay out a series of cards to represent a path for others to follow
  - Great for Elementary level
  - littlecodr Gameplay Example
- **Robot Turtles:**
  - Fun way for kids to learn the fundamentals of programming
  - Great for Elementary level
  - How to Play Robot Turtles
- **Code Monkey Island:**
  - Teaches kids to use and master the fundamentals of computer science
  - Great for Elementary/Middle level
  - Code Monkey Kickstarter