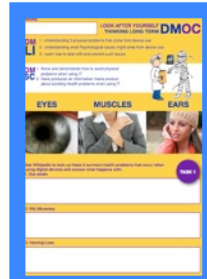


Teaching with Devices: Step 1

PDF WORKSHEETS



All computers (Mac & PC) can save Word files and PowerPoints etc. as PDF documents.

PDFs are universal to all devices

DEVICES IN PHOTO

Macbook HP Windows PC
iPad Android tablet
iPod Touch

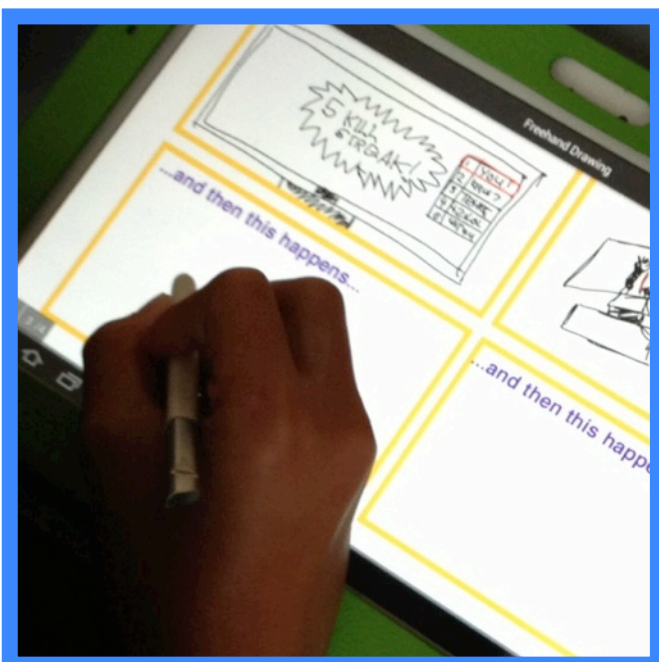
ALL USING FREE APPS !

I make sure the worksheets have clear areas to draw or type information and answers

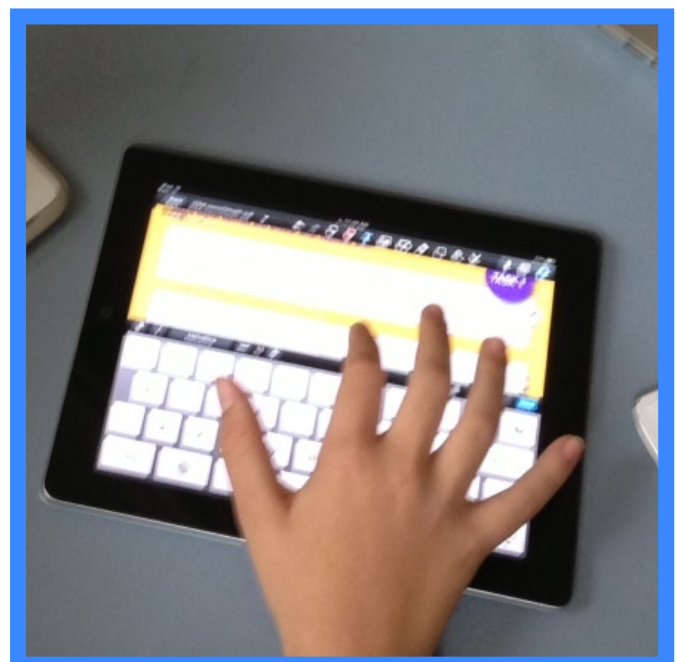
FREE PDF APPS (Click app name for link)

MAC	WINDOWS	iPad	Android	iPod Touch
Preview (Pre-installed)	Foxit Reader	1. Adobe Reader 2. DocAs Lite	Adobe Reader	Adobe Reader

On all Devices, students can:
FREE HAND DRAW



TYPE TEXT



NAME _____

OC Y10 Design Technology

BOOMERANG

Situation

A new House competition has been suggested where you have to compete with something you've made yourself. As a trial, we are going to have a Boomerang throwing competition, where you have to catch your own boomerang for a big prize. But only if you choose to work **Safely**, demonstrate **Good Workshop Skills**, Listen to **Instructions** and always, **ALWAYS** - Bring your iPad, and **SHOES!**

Brief

Research the best design for a Boomerang and make it with the following demands:

You Research how the work You minimise waste material You develop the best Template Working Safely, Following Health and Safety Regulations

Specifications

- It must fly for 10 metres
- It should be well made
- Function as intended
- Look aesthetically pleasing

... to be continued.

RESEARCH FOCUS:

- Where and why they are used?
- The difference between a throwing stick and a boomerang.
- Why they return.
- The basic principles of wing design.
- The making of a modern boomerang.

WRITE YOUR ANSWERS ON THE NEXT PAGE

RESEARCH

YOUTUBE VIDEO

WIKIPEDIA
The Free Encyclopedia

RESEARCH

1. Where and why they are used?

2. The difference between a throwing stick and a boomerang.

3. Why they return.

4. The basic principles of wing design.

5. The making of a modern boomerang.

Specifications

...continued

My research has told me that a boomerang :

Must ...

Should ...

Could ...

Concepts

Sketch & Annotate 2 boomerang concepts in the grid below:

Zoom in on the iPad screen to help with sketching.

Annotate why your boomerang will fly.

Minimising Waste

Sketch out your chosen design on these pieces of plywood to minimise the amount of wasted wood.

Tool Time

What you need to know.

YOUR OWN PAPER TEMPLATE

Preparation Marking out

Band Saw Safety Rules	
Eye and ear protection	Blade guard (bearing max of 5mm above work)
Always keep fingers 50mm from the blade.	Check the blade tension and tracking before starting.
Wood must be flat	Keep a balanced stance.
Never clear small pieces while the blade is moving.	Never use your thumbs to push toward the blade.
Never back out of a curve cut while the machine is running.	

Preparation Part 2...

Complete curve cuts need to be done cut-free

Preparation Part 3...

Finishing ABORIGINAL DESIGNS

TESTING

EVALUATION
HOW WELL DID IT FLY?

WHAT COULD IMPROVE YOUR BOOMERANG?

FUN STUFF

BOOMERANGS

D Z Z O F W J U P E H N J W C B E Q D S AUSTRALIA
 T O B O V T T B H A P O T Z F H W O N T ANDROUSAL
 E F K T H B O W W B F J Z M O U J D P BANDSAW
 S Y R Z N C X Y D Y Y T V U M P Q S I N GUMROUT
 F V L B P L C T W I N B Q Z L P C B B X SAFETY
 S A B S B X T F N A L Y X X T J L L Y R TEMPLATE
 T T T C W L B E O F A R C H V Z A Z C THROW
 S U Y N K B A L B X H V X C A T N B T ELEVATION
 N C P P O S W N H U A X N S U E L Z H E RESEARCH
 H B C E L H I D A V C H S F C A T BLADE
 T M B O G C T B Z B X Y V Z T A W F B V DESIGN
 D O D U V G D V P M B R S E S U O C NONE
 S C T S P V T N V B L B W O A Q N F Y RAZE
 U H X H K Q D X Z Z P O L L S M K V TESTING
 P V H I B S E A L L K J L K J Z
 P Z V I M X A A O Q C E N Y A X W U T Z
 H Q A A P P O W I C F R A S C Q R W O B
 J D J L H R N V U P F P X W W K X X H U
 L D V L C B R A M Q J W B L A D C I V N
 A L V F E W D E E K G A Y V E S T I N G

CLICK FOR WORKSHOP QUIZ

Take a screenshot if you get all the questions right!!

Example Worksheet includes:

- Clickable Web Links
- Free hand Design pages
- Fixed questions
- Open questions
- Word Searches