"iStage 2: Smartphones in Science Teaching / Smartphones im naturwissenschaftlichen Unterricht" Additional materials: app



	Operating			
Name	System	Price	Link	
Adidas				
Snapshot→Please use				
Vernier Video Physics	iOS	4,99\$	https://itunes.apple.com/app/vernier-video-physics/id389784247?mt=8	
Accelerometer Analyzer	Android	free	https://play.google.com/store/apps/details?id=com.lul.accelerometer	
Angle and slope measurement →Please use Smart Protractor	Android	froo	https://play.google.com/store/apps/details?id=kr.sira.protractor	
		free		
Angle Meter FREE! Audio Spectrum	iOS	free	https://itunes.apple.com/app/angle-meter-free/id422843391?mt=8	
Analyzer (siehe Anmerkung)	Android	free	https://play.google.com/store/apps/details?id=org.intoorbit.spectrum	
British Birds Lite	iOS		https://itunes.apple.com/app/british-birds-lite/id332733801?mt=8	
		free		
Color Grab (color detection)	Android	free	https://play.google.com/store/apps/details?id=com.loomatix.colorgrab	
ColorAssist Lite	iOS	free	https://itunes.apple.com/app/colorassist-free-edition/id495034867?mt=8	
Compass	Android	free	https://play.google.com/store/apps/details?id=kr.sira.compass	
Compass (for iPad free)	iOS	free	https://itunes.apple.com/app/compass-for-ipad-free/id378640003?mt=8	
DigiPro SPL Audio				
Analyzer	Android	1,89 €	https://play.google.com/store/apps/details?id=b4a.digipro	
Distance and Parallax	Android	free	https://play.google.com/store/apps/details?id=com.alextoma.DistanceAndParallax	
Decibel Meter [Sound, Noise]			https://play.google.com/store/apps/details?id=cn.menue.decibelmeter	
. , ,	Android	free		
Decibel Ultra	iOS	free	https://itunes.apple.com/app/decibel-ultra/id410139517?mt=8	
Distance and Height	Android	free	https://play.google.com/store/apps/details?id=com.alextoma.distanceandheight	
Distance measurement →Please	7 iliai ola			
use Smart Distance	Android	free	https://play.google.com/store/apps/details?id=kr.sira.distance	
Easy Measure	iOS	free	https://itunes.apple.com/app/easymeasure-measure-your-camera!/id349530105?mt=8	
FFT Spectrum Analyzer	Android	free	https://play.google.com/store/apps/details?id=com.xyz.fft	
FrequenSee - Spectrum Analyzer	Android	free	https://play.google.com/store/apps/details?id=com.DanielBach.FrequenSee	
Google Maps	Android	free	https://play.google.com/store/apps/details?id=com.google.android.apps.maps	
Google Maps	iOS	free	https://itunes.apple.com/de/app/google-maps/id585027354?mt=8	
GPS Essenials →Please				
use motionx-gps	iOS	1,99€	https://itunes.apple.com/app/motionx-gps/id299949744?mt=8	
Height and Distance (not the app used				
originally in the development of the materials, but possible alternative)	iOS	free	https://itunes.apple.com/au/app/height-and-distance/id722926841?mt=8	
materials, sat possible ditermative,	103	1166	meteory, realized application, and apply metaors and another control another control and another control another control and another control and another control another control and another control another control and another control and another control another control another control and another control another control another control another control another control another control a	
Height and Pressure	Android	free	https://play.google.com/store/apps/details?id=com.alextoma.heightmeasurement	
iAnalyzer lite	iOS	free	https://itunes.apple.com/app/ianalyzer-lite/id342456044?mt=8	
ISS Detector (Satellite Tracker)	Android	free	https://plav.google.com/store/apps/details?id=com.runar.issdetector	
(2000)	7 iliai ola		https://play.google.com/store/apps/details?id=com.ikmultimediaus.android.irigrecorder&	
iRig Recorder	Android	free	<u>hl=en</u>	
iRig Recorder	iOS	free	https://itunes.apple.com/app/irig-recorder-free/id426702477?mt=8	
Magnetic Field				
Detecor/Sensor	Android	free	https://play.google.com/store/apps/details?id=com.go.magneticsensor	
Magnetometer/Gaussmeter	iOS	0,99€	https://itunes.apple.com/app/magnetometer-gaussmeter/id944150988?mt=8	
My Altitude	iOS	free	https://itunes.apple.com/app/my-altitude/id465262694?mt=8	
n-Track Tuner →Please				
use Chromatic Tuner - n-Track	Android	free	https://play.google.com/store/apps/details?id=com.ntrack.tuner	
Planetarium	Android	free	https://play.google.com/store/apps/details?id=com.andscaloid.planetarium	
	, android	.,		

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	Operating			
Name	System	Price	Link	
Physics Toolbox				
Accelerometer Please use Physics Toolbox			https://play.google.com/store/apps/details?id=com.chrystianvieyra.android.physicstor	
Roller Coaster	Android	free	oxrollercoaster&hl=en	
Physics Toolbox Roller			https://play.google.com/store/apps/details?id=com.chrystianvieyra.android.physicstor	
Coaster	Android	free	oxrollercoaster&hl=en	
Regression Calculator → Please use Vernier				
Graphical Analysis	iOS	free	https://itunes.apple.com/app/vernier-graphical-analysis/id522996341?mt=8	
Regression Calculator	103	iiee	meps,//realies.appre.com/app/vermer_grapmear-analysis/lase25555-12.int-0	
→Please use Vernier			https://play.google.com/store/apps/details?id=com.vernier.android.graphicalanalysis&hl=	
Graphical Analysis	Android	free	<u>en</u>	
Star Chart	iOS	free	https://itunes.apple.com/app/star-chart/id345542655?mt=8	
Star Chart	Android	free	https://play.google.com/store/apps/details?id=com.escapistgames.starchart	
Sensor Kinetics	Android	free	https://play.google.com/store/apps/details?id=com.innoventions.sensorkinetics	
Sensor Kinetics	iOS	free	https://itunes.apple.com/app/sensor-kinetics/id579040333?mt=8	
Sensor Kinetics Pro	Android	2,40 €	https://play.google.com/store/apps/details?id=com.innoventions.sensorkineticspro	
Sensor Kinetics Pro	iOS	0,99 €	https://itunes.apple.com/app/sensor-kinetics-pro/id623633248?mt=8	
SensorLog	iOS	3,99 €	https://itunes.apple.com/app/sensorlog/id388014573?mt=8	
		<u> </u>		
Smart Compass	Android	free	https://play.google.com/store/apps/details?id=kr.sira.compass	
Smart Distance	Android	free	https://play.google.com/store/apps/details?id=kr.sira.distance	
Smart Measure	Android	free	https://play.google.com/store/apps/details?id=kr.sira.measure	
Smart Protractor	Android	free	https://play.google.com/store/apps/details?id=kr.sira.protractor	
Solar Walk - Planet System 3D	iOS	4,99€	https://itunes.apple.com/app/solar-walk-3d-sonnensystem/id347546771?mt=8	
Sound Meter	Android	free	https://play.google.com/store/apps/details?id=com.bti.soundMeter	
Sound Spectrum				
Analyzer→Please use				
SpecScope Spectrum	l		https://play.google.com/store/apps/details?id=com.nfx.specscope	
Analyzer	Android	free		
SPARKvue	iOS	free	https://itunes.apple.com/app/sparkvue/id361907181?mt=8	
SPARKvue	Android	free	https://play.google.com/store/apps/details?id=com.isbx.pasco.Spark	
SpecScope Spectrum				
Analyzer	Android	free	https://play.google.com/store/apps/details?id=com.nfx.specscope	
Stellarium mobile Sky Map	Android	2,59€	https://play.google.com/store/apps/details?id=com.noctuasoftware.stellarium	
Stellarium mobile Sky Map	iOS	2,99€	https://itunes.apple.com/app/stellarium-mobile/id643165438?mt=8	
Theodolite	iOS	5,99€	https://itunes.apple.com/app/theodolite/id339393884?mt=8	
Theodolit Droid	Android	free	https://play.google.com/store/apps/details?id=com.shopzeus.android.majorforms 1012	
UK Bird Sounds	Android	free	https://play.google.com/store/apps/details?id=com.luminousapps.ukbirdssounds	
Vernier Video Physics	iOS	4,99\$	https://itunes.apple.com/app/vernier-video-physics/id389784247?mt=8	
VidAnalysis	Android	free	https://play.google.com/store/apps/details?id=com.vidanalysis.free	
X-Sensor	iOS	1,99 €	https://itunes.apple.com/app/x-sensor/id340527664?mt=8	
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III

Going for a Song / Alle Vögel sind schon da

GENERAL RISK ASSESSMENT FORM					
a. Dept assessment no (assigned by risk assess	b . Overall assessment no (to be assigned by H&S Manager)				
c. Date first prepared: 1st March 2014	d. Prepared by: Richard Spencer				
e. Dates of previous reviews					
f. Date of this current reviewed version:	g. Prepared by:				
h. Date next review due (Must not exceed one year from date of previous assessment)					
(Note: Date might be sooner if circumstances change and assessment therefore no longer valid)					

The data provided will be used for the purpose of provision of education, training and instruction, administration, marketing and promotion, health, safety and welfare, recruitment, security and prevention and detection of crime. Personal data is collected and processed in accordance with the Data Protection Act 1998

1. Operations covered by this assessment: "Going for a Song" Monitoring of bird sound in two diverse areas:

i. a busy urban road (state location)

ii. a country lane

2.Details of any person(s) specifically at risk:

- Students
- Staf
- Members of the general public

3. Hazards	4. Nature of risks	5. Existing control measures
Urban Road: 1.Road traffic	Trips and fall RTA Callisian	Activity (by college students) arranged with teaching staff.
	CollisionBroken bonesFatality	Using a 'Smart phone' to record bird sounds, on a busy urban road, was investigated at peak times of the day. The recordings to take place at the road side away from the kerb
2.Lack of concentration	RTA collision	Area to be investigated away from the kerb
3.Inappropriate behaviour: Driver perception /provocation	Annoyance of road users Distraction of road users	Telephones directed away from motorists / road users If asked, students to explain actions / report to college staff











Country Lane: 4.Unfamiliar location	DisorientatedLostTrips, fall	Students to inform staff (parents if out of college / weekend) of location and expected return time.
5.Unsupervised activity	Inappropriate behaviour Trips, fall	Work carried out in pairs or larger group. Students are capable, knowledgeable and responsible members of college.
6.Inappropriate behaviour: Perception of people at the location	Irritation / Aggravation	As above (5) Smart phone used to record birds sound away from activity (people: walkers / runners) at location

L.Risk rating factor (based on existing controls) (See calculation guidance below) Either by individual hazard/risk or overall rating, whichever deemed appropriate to circumstances)					
(A) Severity	(B) Probability	(C) Risk Rating (= A x B)	Action Priority		
1) 5	2	10	Low priority in all instances		
2) 5	2	10			
3) 3	3	9			
4) 3	2	6			
5) 3	2	6			
6) 3	3	9			
2.Activities identified as req		ents: N/A ared in relation to this Risk Ass	essment? Yes / No		

NOTES: Calcula	ation of risk ratin	g		
A : Severity of Insignificant Minor Significant Major Fatality	incident 1 2 3 4 5	B: Probability Very unlikely Unlikely Possible Likely Very likely	of occurrence 1 2 3 4 5	Determining action priority 1 – 10 Low priority (Action if reasonably practicable; otherwise, acceptable) 11 – 15 Medium priority (Must take action) 16 – 25 High priority (Must take action)

SIGNATURES				
Prepared by: Signature	Print name:			
Position:	Date:			
Reviewed & authorised by line manager: Signature	Name: Date:			
Note: The line manager is accountable for the risk assessment and is responsible for monitoring any related action plan. He/she must inform the Health & Safety Manager when the action plan has been completed				
For Health and Safety Team use only				
Reviewed by Health and Safety Manager (for completeness, no	ot technical knowledge):			









