

Catalog Number: 7-00001-00

Name	
Course Title	
nstructor	AMERICAN PRINTING HOUS FOR THE BLIND, INC.
Date	© 2006

The Advance Preparation Checklist is designed to be used in conjunction with "Adapting Science for Students with Visual Impairments; A Handbook for the Classroom Teacher and Teacher of the Visually Impaired", and the accompanying Skills Checklist. These materials provide suggested items for use, and the abbreviations for the vendors from which they can be obtained. Consult the Appendix in the handbook for details about the suggested vendors.

Adapting Science for Students with Visual Impairments

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Advance Preparation	Behavior Present? Yes/No	Date Student Informed	Date Behavior Addressed
Behaviors particular to students who are blind or visually impaired:			
a. Bringing objects close to eyes			
b. Eye rubbing and poking			
c. Finger sniffing			
d. Rocking body back and forth			
e. Tasting substances			
f. Using touch to determine levels of solids and liquids			
g. Other			
	Needed before course begins? Yes/No	Date in progress	Date completed
Familiarization with experimental procedure(s):			
a. Read through all steps and protocol			
b. Practice operations; see Skills Checklist			
c. Identify needed adaptations; see Skills Checklist			
d. Other			
Organizational tray for devices & lab ware:			
a. Ordinary cafeteria style tray			
b. Metal tray from CB			
c. Sorting tray from LHS and APH			
d. Other			

Advance Preparation	Needed before course begins? Yes/No	Date in progress	Date completed
Lab ware and equipment stabilization			
a. Clamps			
b. Larger containers			
c. Support stands			
d. Other			
Lighting Considerations			
a. Change overhead lighting to warm incandescent bulbs			
b. Natural light from window			
c. Task lamp			
d. Other			
Location of Safety equipment and supplies			
a. Apron			
b. Eyewash			
c. Fire alarm			
d. Fume hood			
e. Gloves (latex, pvc, Kevlar®)			
f. Goggles			
g. MSDSs			
h. Other			

Advance Preparation	Needed before course begins? Yes/No	Date in progress	Date completed
Magnification devices; see Skills Checklist			
a. Compound microscope			
b. CCTV			
c. Dissecting microscope			
d. Hand-held magnifier			
e. Stand magnifier			
f. Other			
Orientation in room/laboratory			
a. Chemicals and supplies			
b. Desk/lab station			
c. Exits			
d. Safety equipment			
e. Waste receptacles			
f. Other			
Clean-up considerations:			
a. Latex/pvc gloves Note: Gloves may decrease tactile sensitivity			
b. Waste disposal			
• Glass			
Preserved organisms			
Acids & bases			



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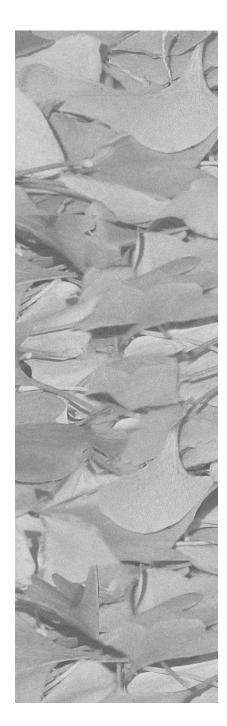
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Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Dissection	40				
a. Instrument identification	40				
b. Magnification	40				
• CCTV	40				
Dissecting microscope	36				
Stand magnifier	40				
Other					
c. Other					
Force	46				
a. Knows definition					
b. Performs measurement	46				
c. Other					
Length	42				
a. Knows definition	42				
b. Length measurements					
Meter tapes and rulers	42				
String	43				
Trundle Wheel	43				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Liquid Measurement	49				
a. Consider before dispensing liquids:	50				
Fullness of source bottle	50				
Does the measuring device:					
o Fit the mouth of the source bottle?					
o Reach the liquid level of the source bottle?					
Pour a small amount from source bottle into another container	50				
Detects meniscus	50				
Other					
b. Performs volume measurements:					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
 Syringes 	52, 53				
Talking Jug	54				
Pipettors	54, 55				
Measuring volume by mass	56				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Making Solutions	18				
a. Magnetic stirrer/magnetic stirring bar	56				
b. Stirring rod	56				
c. Knows when solid is dissolved					
d. Other					
Mass	43				
a. Knows definition	43				
b. Consider before measuring dry chemicals:	47				
Fullness of source jar					
 Size of spatula versus size of jar mouth 					
How far the jar must be tilted to scoop out chemical					
 Ability of student to maintain spatula contents 					
 Ability of student to completely empty spatula and weighing container 					
c. Performs mass measurements					
Double cup balance	44				
Electronic digital scale	46				
 Spring scale 	46				
Talking scale	47				
Triple beam balance	45				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Microscopy					
a. Care of the microscope	34, 35				
b. Compound Microscope					
Understands parts	33				
Prepares wet mounts	38, 39				
 Views permanent slides or wet mounts 	38, 39				
Other					
c. Dissecting Microscope	36				
Understands parts	36				
 Views objects on stage 	38				
Other					
d. Microvideo Camera	37				
Understands parts	37				
Computer image capture	37				
 Views slides on compound microscope 	37				
 Views objects on dissecting microscope 	37				
Other					
e. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
рН	62				
a. Knows definition	62				
b. Performs pH measurements					
Litmus paper	64				
 pH test strips 	64				
pH meter	63				
Other					
c. Other					
Temperature	57				
a. Knows definition					
b. Performs temperature measurements	58				
Glass thermometer	58				
Glass-free thermometer	58, 59				
Talking thermometer	58				
Other					
c. Performs cooling operations	58				
Dry ice	58				
• Freezer	58				
Ice bath	58				
Refrigerator/Freezer	58				
Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Temperature, continued					
d. Performs heating operations	58				
Bunsen Burner	60				
Hot plate	62				
Other					
e. Other					
Time	57				
a. Performs time measurements	57				
Analog clock/timer	57				
Atomic clock	57				
Digital clock/timer	57				
Other					
b. Other					
Units of Measurement					
a. Metric vs. Imperial	40				
b. Table of Metric & Imperial equivalents	67				
c. Table of Metric Units	41				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Volume	47				
a. Knows definition	47				
b. Performs liquid volume measurements					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
Measuring volume by mass	56				
• Pipettors	54, 55				
• Syringes	52, 53				
Talking Jug	54				
Other					
c. Determines volume of an object					
Geometrically shaped	47				
Large objects	48				
Small objects	48				
Other					
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Weight	43				
a. Knows definition	44				
b. Performs weight measurements					
Double cup balance	44				
Electronic digital scale	46				
Spring scales	46				
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Fullness of source bottle	50				
Does the measuring device:					
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Pour a small amount from source bottle into another container	50				
Detects meniscus	50				
Other					
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a. Instrument identification	40				
b. Magnification	40				
• CCTV	40				
Dissecting microscope	36				
Stand magnifier	40				
Other					
c. Other					
Force	46				
a. Knows definition					
b. Performs measurement	46				
c. Other					
Length	42				
a. Knows definition	42				
b. Length measurements					
Meter tapes and rulers	42				
String	43				
Trundle Wheel	43				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Liquid Measurement	49				
a. Consider before dispensing liquids:	50				
Fullness of source bottle	50				
Does the measuring device:					
o Fit the mouth of the source bottle?					
o Reach the liquid level of the source bottle?					
Pour a small amount from source bottle into another container	50				
Detects meniscus	50				
Other					
b. Performs volume measurements:					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
 Syringes 	52, 53				
Talking Jug	54				
Pipettors	54, 55				
Measuring volume by mass	56				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Making Solutions	18				
a. Magnetic stirrer/magnetic stirring bar	56				
b. Stirring rod	56				
c. Knows when solid is dissolved					
d. Other					
Mass	43				
a. Knows definition	43				
b. Consider before measuring dry chemicals:	47				
Fullness of source jar					
 Size of spatula versus size of jar mouth 					
How far the jar must be tilted to scoop out chemical					
 Ability of student to maintain spatula contents 					
 Ability of student to completely empty spatula and weighing container 					
c. Performs mass measurements					
Double cup balance	44				
Electronic digital scale	46				
 Spring scale 	46				
Talking scale	47				
Triple beam balance	45				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Microscopy					
a. Care of the microscope	34, 35				
b. Compound Microscope					
Understands parts	33				
Prepares wet mounts	38, 39				
 Views permanent slides or wet mounts 	38, 39				
Other					
c. Dissecting Microscope	36				
Understands parts	36				
 Views objects on stage 	38				
Other					
d. Microvideo Camera	37				
Understands parts	37				
Computer image capture	37				
 Views slides on compound microscope 	37				
 Views objects on dissecting microscope 	37				
Other					
e. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
рН	62				
a. Knows definition	62				
b. Performs pH measurements					
Litmus paper	64				
 pH test strips 	64				
pH meter	63				
Other					
c. Other					
Temperature	57				
a. Knows definition					
b. Performs temperature measurements	58				
Glass thermometer	58				
Glass-free thermometer	58, 59				
Talking thermometer	58				
Other					
c. Performs cooling operations	58				
Dry ice	58				
• Freezer	58				
Ice bath	58				
Refrigerator/Freezer	58				
Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Temperature, continued					
d. Performs heating operations	58				
Bunsen Burner	60				
Hot plate	62				
Other					
e. Other					
Time	57				
a. Performs time measurements	57				
Analog clock/timer	57				
Atomic clock	57				
Digital clock/timer	57				
Other					
b. Other					
Units of Measurement					
a. Metric vs. Imperial	40				
b. Table of Metric & Imperial equivalents	67				
c. Table of Metric Units	41				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Volume	47				
a. Knows definition	47				
b. Performs liquid volume measurements					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
Measuring volume by mass	56				
• Pipettors	54, 55				
• Syringes	52, 53				
Talking Jug	54				
Other					
c. Determines volume of an object					
Geometrically shaped	47				
Large objects	48				
Small objects	48				
Other					
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Weight	43				
a. Knows definition	44				
b. Performs weight measurements					
Double cup balance	44				
Electronic digital scale	46				
Spring scales	46				
Talking scales	47				
Triple beam balance	45				
Other					
c. Other					



Adapting Science for Students with Visual Impairments Skills Checklist

Catalog Number: 7-00001-00

Name	
Course Title	41%
Instructor	AMERICAN PRINTING HOUSE FOR THE BLIND, INC.
Date	© 2006

The Skills Checklist is designed to be used in conjunction with "Adapting Science for Students with Visual Impairments; A Handbook for the Classroom Teacher and Teacher of the Visually Impaired". The page numbers listed in the first column of the checklist refer to where information for the topic in the corresponding row can be found in the handbook. The handbook provides suggested items for use, and the abbreviations for the vendors from which they can be obtained. Consult the Appendix in the handbook for details about the suggested vendors.

Adapting Science for Students with Visual Impairments

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Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Dissection	40				
a. Instrument identification	40				
b. Magnification	40				
• CCTV	40				
Dissecting microscope	36				
Stand magnifier	40				
Other					
c. Other					
Force	46				
a. Knows definition					
b. Performs measurement	46				
c. Other					
Length	42				
a. Knows definition	42				
b. Length measurements					
Meter tapes and rulers	42				
String	43				
Trundle Wheel	43				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Liquid Measurement	49				
a. Consider before dispensing liquids:	50				
Fullness of source bottle	50				
Does the measuring device:					
o Fit the mouth of the source bottle?					
o Reach the liquid level of the source bottle?					
Pour a small amount from source bottle into another container	50				
Detects meniscus	50				
Other					
b. Performs volume measurements:					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
 Syringes 	52, 53				
Talking Jug	54				
Pipettors	54, 55				
Measuring volume by mass	56				
Other					
c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Making Solutions	18				
a. Magnetic stirrer/magnetic stirring bar	56				
b. Stirring rod	56				
c. Knows when solid is dissolved					
d. Other					
Mass	43				
a. Knows definition	43				
b. Consider before measuring dry chemicals:	47				
Fullness of source jar					
 Size of spatula versus size of jar mouth 					
How far the jar must be tilted to scoop out chemical					
 Ability of student to maintain spatula contents 					
 Ability of student to completely empty spatula and weighing container 					
c. Performs mass measurements					
Double cup balance	44				
Electronic digital scale	46				
 Spring scale 	46				
Talking scale	47				
Triple beam balance	45				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
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a. Care of the microscope	34, 35				
b. Compound Microscope					
Understands parts	33				
Prepares wet mounts	38, 39				
 Views permanent slides or wet mounts 	38, 39				
Other					
c. Dissecting Microscope	36				
Understands parts	36				
Views objects on stage	38				
Other					
d. Microvideo Camera	37				
Understands parts	37				
Computer image capture	37				
 Views slides on compound microscope 	37				
 Views objects on dissecting microscope 	37				
Other					
e. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
рН	62				
a. Knows definition	62				
b. Performs pH measurements					
Litmus paper	64				
 pH test strips 	64				
pH meter	63				
Other					
c. Other					
Temperature	57				
a. Knows definition					
b. Performs temperature measurements	58				
Glass thermometer	58				
Glass-free thermometer	58, 59				
Talking thermometer	58				
Other					
c. Performs cooling operations	58				
Dry ice	58				
• Freezer	58				
Ice bath	58				
Refrigerator/Freezer	58				
Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
Temperature, continued					
d. Performs heating operations	58				
Bunsen Burner	60				
Hot plate	62				
Other					
e. Other					
Time	57				
a. Performs time measurements	57				
Analog clock/timer	57				
Atomic clock	57				
Digital clock/timer	57				
Other					
b. Other					
Units of Measurement					
a. Metric vs. Imperial	40				
b. Table of Metric & Imperial equivalents	67				
c. Table of Metric Units	41				
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
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a. Knows definition	47				
b. Performs liquid volume measurements					
Beakers	52				
Bottle top dispenser	54				
Graduated cylinders	51				
Graduated pipets	54, 55				
Measuring volume by mass	56				
• Pipettors	54, 55				
• Syringes	52, 53				
Talking Jug	54				
Other					
c. Determines volume of an object					
Geometrically shaped	47				
Large objects	48				
Small objects	48				
Other					
d. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
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a. Knows definition	44				
b. Performs weight measurements					
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Spring scales	46				
Talking scales	47				
Triple beam balance	45				
Other					
c. Other					



Adapting Science for Students with Visual Impairments Skills Checklist

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Adapting Science for Students with Visual Impairments

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b. Length measurements					
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Pipettors	54, 55				
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c. Other					

Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
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e. Other					

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 pH test strips 	64				
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c. Other					
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b. Performs temperature measurements	58				
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Glass-free thermometer	58, 59				
Talking thermometer	58				
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c. Performs cooling operations	58				
Dry ice	58				
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Ice bath	58				
Refrigerator/Freezer	58				
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Skills Checklist	Page	Skill Needed	Date Skill Achieved	Type of Magnifier Needed	Identify Adaptation Needed
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• Pipettors	54, 55				
• Syringes	52, 53				
Talking Jug	54				
Other					
c. Determines volume of an object					
Geometrically shaped	47				
Large objects	48				
Small objects	48				
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d. Other					

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