



 | AVEDA EDUCATION

# Full Spectrum Deep™ Systems

participant workbook

# Full Spectrum Deep™

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Formulate for results



Starting Level 4



Starting Level 2



Starting Level 3



Starting Level 6

# Features and Benefits

## 1 Plant-derived ingredients

- Protective botanical oil blend—castor and certified organic \_\_\_\_\_ and \_\_\_\_\_—helps improve the condition of hair and provide radiant shine.
- \_\_\_\_\_ extract helps create a broader spectrum of color by acting as a naturally derived color modifier to enhance the shade range, providing the ultimate colorist's palette.
- Candelilla wax creates a rich, creamy consistency that allows precise, \_\_\_\_\_-\_\_\_\_\_ applications that can be applied with a bottle or a bowl and brush.

## 2 Fade-resistant results

- Permanent formulas contain solely \_\_\_\_\_ dyes that develop inside the cortical fiber to lock in \_\_\_\_\_-\_\_\_\_\_ color that stays true.

## 3 Customizable components

- Natural Series shades feature a \_\_\_\_\_ base tone to neutralize unwanted warm tones with lifting dark hair, achieving up to \_\_\_\_\_ levels of lift in a \_\_\_\_\_-minute processing time.

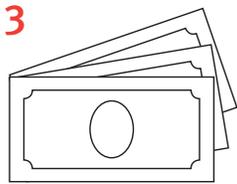
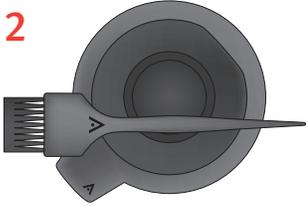
## 4 Sustainably sourced

- \_\_\_\_\_% naturally derived,\* vegan, Leaping Bunny-approved formulas.

\*Full Spectrum Deep™ is 96% naturally derived on average, per ISO 16128 standard, from plant sources, non-petroleum mineral sources and/or water.

## Notes

# Why Full Spectrum Deep™?



**Notes**

# Full Spectrum Deep™ Customization Chart

		NATURAL SERIES CUSTOMIZATION					
LEVEL	NEUTRAL	NATURAL	NATURAL/NATURAL	MATTE	BLUE ASH	GREY ASH	BEIGE ASH
	Ø	UNIVERSAL ØN	UNIVERSAL ØN can be used to customize all bases and pure tones				
LIGHT	14	14NATURAL		14 Y/G 40 g 14N 4 g Light Y/G	14 B/B 40 g 14N 4 g Light B/B	14 B/Gr 40 g 14N 4 g Light B/Gr	14 V/Gr 40 g 14N 4 g Light V/Gr
	12	12NATURAL		12 Y/G 40 g 12N 4 g Light Y/G	12 B/B 40 g 12N 4 g Light B/B	12 B/Gr 40 g 12N 4 g Light B/Gr	12 V/Gr 40 g 12N 4 g Light V/Gr
	10	10NATURAL	10N/N 40 g 10N 8 g Light N/N	10 Y/G 40 g 10N 8 g Light Y/G	10 B/B 40 g 10N 8 g Light B/B	10 B/Gr 40 g 10N 8 g Light B/Gr	10 V/Gr 40 g 10N 8 g Light V/Gr
	9	9NATURAL	9N/N 40 g 9N 12 g Light N/N	9 Y/G 40 g 9N 12 g Light Y/G	9 B/B 40 g 9N 12 g Light B/B	9 B/Gr 40 g 9N 12 g Light B/Gr	9 V/Gr 40 g 9N 12 g Light V/Gr
	8	8NATURAL	8N/N 40 g 8N 16 g Light N/N	8 Y/G 40 g 8N 16 g Light Y/G	8 B/B 40 g 8N 16 g Light B/B	8 B/Gr 40 g 8N 16 g Light B/Gr	8 V/Gr 40 g 8N 16 g Light V/Gr
	LIGHT PURE TONES			LIGHT NATURAL/NATURAL	LIGHT YELLOW/GREEN	LIGHT BLUE/BLUE	LIGHT BLUE/GREY
DARK	7	7NATURAL	7N/N 40 g 7N 4 g Dark N/N	7 G/Y 40 g 7N 4 g Dark G/Y		7 Gr/B 40 g 7N 4 g Dark Gr/B	7 G/Gr 40 g 7N 4 g Dark G/Gr
	6	6NATURAL	6N/N 40 g 6N 8 g Dark N/N	6 G/Y 40 g 6N 8 g Dark G/Y		6 Gr/B 40 g 6N 8 g Dark Gr/B	6 G/Gr 40 g 6N 8 g Dark G/Gr
	5	5NATURAL	5N/N 40 g 5N 12 g Dark N/N	5 G/Y 40 g 5N 12 g Dark G/Y		5 Gr/B 40 g 5N 12 g Dark Gr/B	5 G/Gr 40 g 5N 12 g Dark G/Gr
	4	4NATURAL	4N/N 40 g 4N 16 g Dark N/N	4 G/Y 40 g 4N 16 g Dark G/Y		4 Gr/B 40 g 4N 16 g Dark Gr/B	4 G/Gr 40 g 5N 16 g Dark G/Gr
	2	2NATURAL	Not recommended for customization				
DARK PURE TONES			DARK NATURAL/NATURAL	DARK GREEN/YELLOW		DARK GREY/BLUE	DARK GREEN/GREY

\*Further customization can be achieved by mixing 50% more or less than the recommended pure tone to adjust the intensity of the tone. **STRONG FORMULA:** 50% more pure tone than recommended at the shade. **SOFT FORMULA:** 50% less pure tone than recommended at the shade. Mix the total amount of full spectrum deep™ components with color catalyst™ conditioning creme developer in a 1:2 ratio.

GOLD	COPPER	RED/RED	RED/VIOLET
14 Y/O 40 g 14N 4 g Light Y/O	14 O/Y 40 g 14N 4 g Light O/Y	14 R/R 40 g 14N 4 g Light R/R	14 R/V 40 g 14N 4 g Light R/V
12 Y/O 40 g 12N 4 g Light Y/O	12 O/Y 40 g 12N 4 g Light O/Y	12 R/R 40 g 12N 4 g Light R/R	12 R/V 40 g 12N 4 g Light R/V
10 Y/O 40 g 10N 8 g Light Y/O	10 O/Y 40 g 10N 8 g Light O/Y	10 R/R 40 g 10N 8 g Light R/R	10 R/V 40 g 10N 8 g Light R/V
9 Y/O 40 g 9N 12 g Light Y/O	9 O/Y 40 g 9N 12 g Light O/Y	9 R/R 40 g 9N 12 g Light R/R	9 R/V 40 g 9N 12 g Light R/V
8 Y/O 40 g 8N 16 g Light Y/O	8 O/Y 40 g 8N 16 g Light O/Y	8 R/R 40 g 8N 16 g Light R/R	8 R/V 40 g 8N 16 g Light R/V
LIGHT YELLOW / ORANGE	LIGHT ORANGE / YELLOW	LIGHT RED / RED	LIGHT RED / VIOLET
7 Y/O 40 g 7N 4 g Dark Y/O	7 O/R 40 g 7N 4 g Dark O/R	7 R/R 40 g 7N 4 g Dark R/R	7 R/V 40 g 7N 4 g Dark R/V
6 Y/O 40 g 6N 8 g Dark Y/O	6 O/R 40 g 6N 8 g Dark O/R	6 R/R 40 g 6N 8 g Dark R/R	6 R/V 40 g 6N 8 g Dark R/V
5 Y/O 40 g 5N 12 g Dark Y/O	5 O/R 40 g 5N 12 g Dark O/R	5 R/R 40 g 5N 12 g Dark R/R	5 R/V 40 g 5N 12 g Dark R/V
4 Y/O 40 g 4N 16 g Dark Y/O	4 O/R 40 g 4N 16 g Dark O/R	4 R/R 40 g 4N 16 g Dark R/R	4 R/V 40 g 4N 16 g Dark R/V
DARK YELLOW / ORANGE	DARK ORANGE / RED	DARK RED / RED	DARK RED / VIOLET

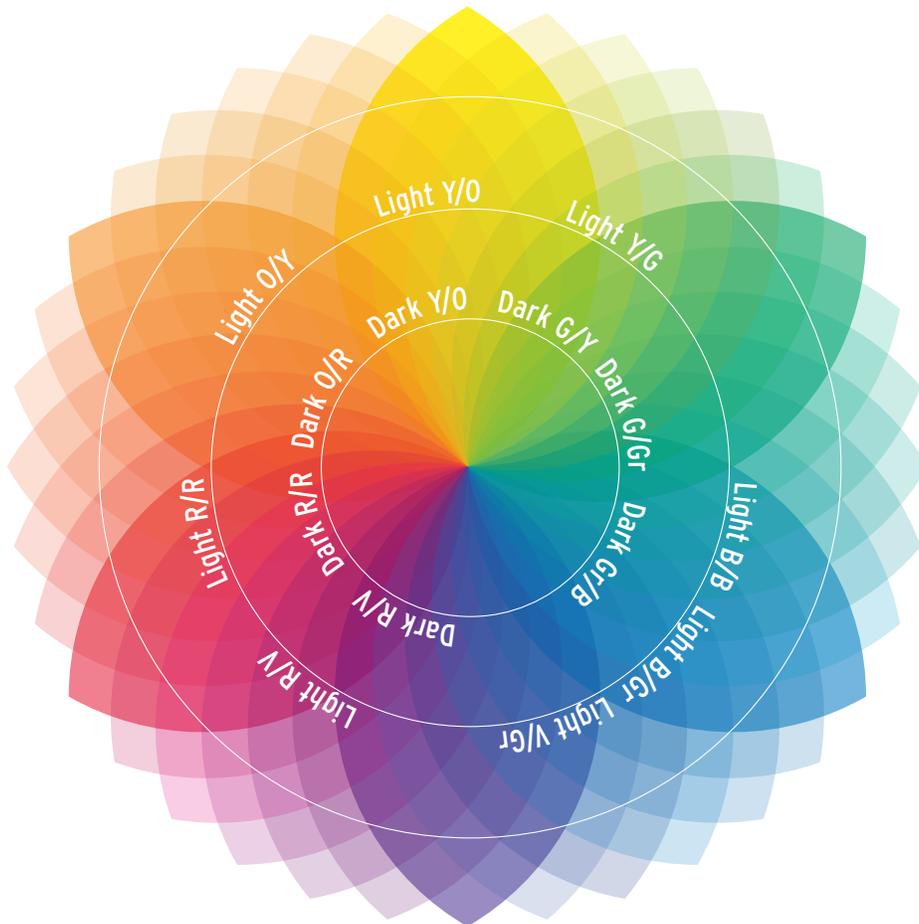
VIBRANT RED SERIES CUSTOMIZATION		
VIBRANT COPPER	VIBRANT RED	VIBRANT RED/VIOLET
20 g Red Base 20 g 12N 8 g Light O/Y	20 g Red Base 20 g 12N 8 g Light R/R	20 g Red Base 20 g 12N 8 g Light R/V
40 g Red Base 8 g Dark O/R	40 g Red Base 8 g Dark R/R	40 g Red Base 8 g Dark R/V
LIGHT ORANGE / YELLOW	LIGHT RED / RED	LIGHT RED / VIOLET
40 g Red Base 8 g Dark O/R	40 g Red Base 8 g Dark R/R	40 g Red Base 8 g Dark R/V
DARK ORANGE / RED	DARK RED / RED	DARK RED / VIOLET



## Natural Remaining Pigment (NRP)

Natural remaining pigment (NRP) is the tonal value that the hair contributes as it lightens. It is important to determine the NRP the hair will contribute at the desired level prior to applying hair color. After you identify the NRP at the desired level, determine whether you want to neutralize or enhance the NRP, and choose the shade accordingly using the color wheel.

LEVEL	DESCRIPTOR	NATURAL REMAINING PIGMENT	COMPLEMENTARY PIGMENT
10	Lightest Blonde	Pale Yellow	Violet
9	Very Light Blonde	Yellow	
8	Light Blonde	Yellow/Orange	Blue/Violet
7	Medium Blonde	Orange	Blue
6	Dark Blonde	Red/Orange	Blue/Green
5	Lightest Brown	Red	Green
4	Light Brown		
3	Medium Brown		
2	Dark Brown		
1	Black		





## Pure Tones

### Notes



Use Light B/B Pure Tone to help control warmth and create a more neutral result when lifting shades 8–14.

Light Pure Tones (Shades 8–14)	Dark Pure Tones (Shades 4–7)
Light Natural/Natural	Dark Natural/Natural
Light Yellow/Green	Dark Green/Yellow
Light Blue/Blue	Dark Grey/Blue
Light Blue/Grey	Dark Green/Grey
Light Violet/Grey	Dark Yellow/Orange
Light Yellow/Orange	Dark Orange/Red
Light Orange/Yellow	Dark Red/Red
Light Red/Red	Dark Red/Violet
Light Red/Violet	

Dark Pure Tones		Light Pure Tones	
SHADE	PURE TONE	SHADE	PURE TONE
7	4 g	14	4 g
6	8 g	12	4 g
5	12 g	10	8 g
4	16 g	9	12 g
2	—	8	16 g



**PRO TIP:** Because Pure Tones don't show as much on darker levels, make sure you use enough to get a true-to-tone result.

# Formulation

**Full spectrum deep™** is an extra lifting and depositing hair color. The result achieved is based on the guest's natural starting level and the **natural series** shade used. The standard formulation is made with **20 volume color catalyst™ conditioning creme developer** because the amount of lift varies by shade; the higher the number, the higher the lift.

1	Identify the guest's natural level, and locate it along the far left column on the formulation chart below.
2	Determine the guest's desired level, and locate it along the top row.
3	Determine the <b>natural series</b> shade to use. The point at which the natural level and desired level meet indicates the shade needed to achieve the desired result.
4	Choose the appropriate <b>pure tone</b> . Note that the guest's natural remaining pigment (NRP) will impact the final result.

**FORMULATION EQUATION FOR GOING LIGHTER:**  
**DESIRED LEVEL × 2 = # - NATURAL LEVEL = DESIRED SHADE**

FULL SPECTRUM DEEP™ FORMULATION CHART											
DESIRED LEVEL	Going darker with 5 or 10 volume color catalyst™						Going lighter with 20 volume color catalyst™				Prelighten
	1	2	3	4	5	6	7	8	9 <sup>1</sup>	10 <sup>1</sup>	
NATURAL LEVEL	6	2	2/4 <sup>1</sup>	4	5	6	7	8	10	12	14
	5	2	2/4 <sup>1</sup>	4	5	6	7	9	10/12 <sup>1</sup>	12/14 <sup>1</sup>	X
	4	2	2/4 <sup>1</sup>	4	5	6	8	10	12	14	X
	3	2	2/4 <sup>1</sup>	4	5	7	9	10/12 <sup>1</sup>	12/14 <sup>1</sup>	X	X
	2	2	2/4 <sup>1</sup>	4	6	8	10	12	14	X	X
	1	2	2/4 <sup>1</sup>	5	7	9	10/12 <sup>1</sup>	12/14 <sup>1</sup>	X	X	X

X Hair must be prelightened to achieve the level; indicates a result for which **full spectrum deep™** is not recommended.

<sup>1</sup>Represents equal parts of each shade.

## Color Catalyst™ Conditioning Creme Developer Selection Guidelines



	DESIRED RESULT	COLOR CATALYST™	PROCESSING TIME (ROOM TEMPERATURE)
GOING LIGHTER	Use for standard lift and grey coverage	20 Volume	Up to 30 minutes
GOING LIGHTER WITH EXTRA LIFT <sup>2</sup>	Use <b>30 volume</b> for up to half a level of additional lift Use <b>40 volume</b> for up to one level of additional lift	30 or 40 Volume	Up to 30 minutes
GOING DARKER	Use for maximum deposit	5 or 10 Volume	20 minutes

<sup>2</sup>For off-the-scalp applications only.

## Mixing and Processing Guidelines

Mix the total amount of **full spectrum deep™** components with **color catalyst™ conditioning creme developer** in a 1:2 ratio. Process at room temperature. Do not use heat. Refer to the customization chart for shade-by-shade mixing instructions. Use the following guidelines to create customized results with a standard 40-gram amount of **natural series** and **pure tone**.



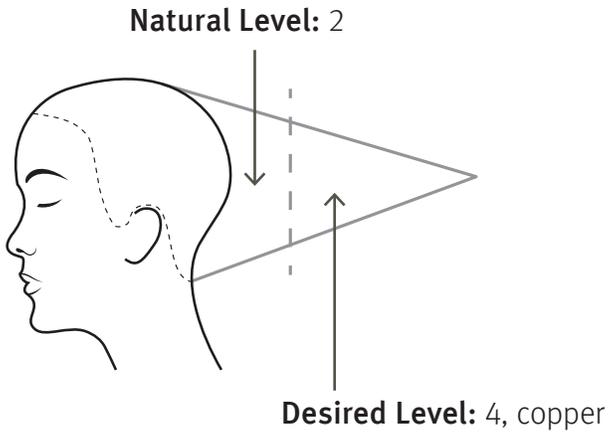
40 grams	NATURAL SERIES SHADE		PURE TONE		COLOR CATALYST™ 1:2 RATIO		TOTAL COLOR MIXTURE
14N 12N 7N	40 g	+	4 g	+	88 ml	=	132 ml
10N 6N	40 g	+	8 g	+	96 ml	=	144 ml
9N 5N	40 g	+	12 g	+	104 ml	=	156 ml
8N 4N	40 g	+	16 g	+	112 ml	=	168 ml



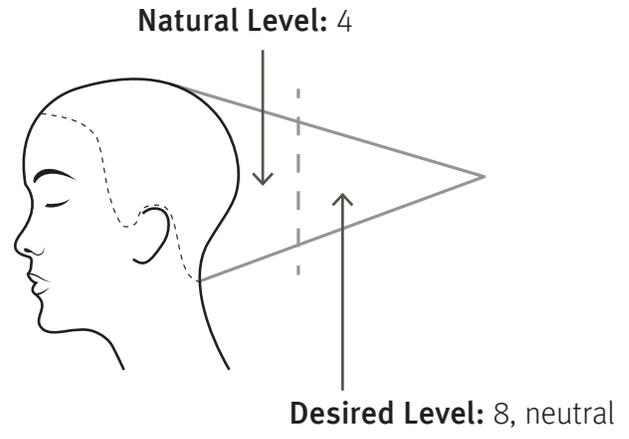
**PRO TIP:** Always consider skin tone. If you are using tones that feel too bright for the guest's complexion, begin the application below the chin, and apply it through the ends.

### Notes

# Scenarios



Formula:



Formula:

## Grey Coverage Guidelines

Use the following guidelines to achieve the desired grey coverage result. **Natural series** is formulated to provide maximum grey coverage without excess warmth or coolness.

NATURAL GREY COVERAGE

Mix the total amount of **full spectrum deep™** components with **color catalyst™ conditioning creme developer** in a 1:2 ratio. Process at room temperature. Do not use heat.

 40 g 7N	 4 g Dark N/N	 88 ml 20 volume color catalyst™
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MAXIMUM GREY COVERAGE

Mix **natural series** with **color catalyst™ conditioning creme developer** in a 1:2 ratio. Process at room temperature. Do not use heat. Do not adjust **color catalyst™** for the addition of **pure tone**.

 40 g 7N	 4 g Dark N/N	 80 ml 20 volume color catalyst™
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NATURAL GREY COVERAGE

Mix the total amount of **full spectrum deep™** components with **color catalyst™ conditioning creme developer** in a 1:2 ratio. Process at room temperature. Do not use heat.

 40 g 7N	 2 g Dark N/N	 2 g Pure Tone	 88 ml 20 volume color catalyst™
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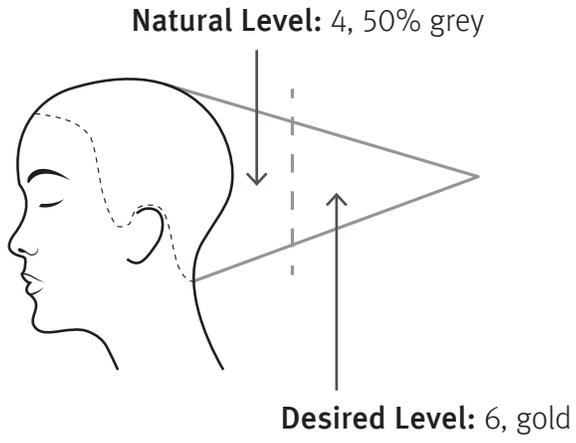
MAXIMUM GREY COVERAGE

Mix **natural series** with **color catalyst™ conditioning creme developer** in a 1:2 ratio. Process at room temperature. Do not use heat. Do not adjust **color catalyst™** for the addition of **pure tone**.

 40 g 7N	 2 g Dark N/N	 2 g Pure Tone	 80 ml 20 volume color catalyst™
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### Notes

## Scenario



Formula:

Notes

# Red Results



## Red Base

- Used to create more vibrant red results than using Natural Series alone
- Never used alone; always mixed with red Pure Tones, up to eight grams (the more Pure Tone, the more vibrant, reflective, red results)
- To achieve more lift and create lighter results, mix with equal parts 12N or Bright Base



		VIBRANT RED SERIES CUSTOMIZATION				
		LEVEL	TONE	VIBRANT COPPER	VIBRANT RED	VIBRANT RED/VIOLET
LIGHT		14				
		12				
		10		20 g Red Base 20 g 12N 8 g Light O/Y	20 g Red Base 20 g 12N 8 g Light R/R	20 g Red Base 20 g 12N 8 g Light R/V
		9				
		8				
DARK		7				
		6				
		5		40 g Red Base 8 Dark O/R	40 g Red Base 8 g Dark R/R	40 g Red Base 8 g Dark R/V
		4				
		2				

## Swatching Activity



### Natural Result

- 10 g 4N
- 10 g 5N
- 1 g Dark G/Y
- 1 g Dark Y/O
- 44 ml 10 Volume Color Catalyst™



### Red Result

- 10 g 12N
- 10 g Red Base
- 6 g Dark R/V
- 3 g Light B/B
- 58 ml 30 Volume Color Catalyst™

# Blonde Results



14N

## Notes

FULL SPECTRUM DEEP™ FORMULATION CHART

DESIRED LEVEL	Going lighter with 20 volume color catalyst™			Prelighten
	7	8	9	
6	8	10	12	14 <sup>1</sup>
5	9	10/12 <sup>1</sup>	12/14 <sup>1</sup>	X
4	10	12	14	X
3	10/12 <sup>1</sup>	12/14 <sup>1</sup>	X	X
2	12	14	X	X
1	12/14 <sup>1</sup>	X	X	X



**PRO TIP:** To achieve maximum lift on dark hair, use 14N. Refine the end result by adding Pure Tones to neutralize or add warmth as you lighten.

X Hair must be prelightened to achieve the level; indicates a result for which **full spectrum deep™** is not recommended.  
<sup>1</sup>Represents equal parts of each shade.

# Customized Results



## Universal ØN Creme and Gel

Use to match the tonal quality of the formula without over-depositing or going too dark with the level.

## Notes



## Pure Pigments

- To get pure primary and secondary colors on prelightened hair, mix Pure Pigments with 5 Volume Color Catalyst™ Creme Developer in a 1:1 ratio, and process for 10–20 minutes. Do not use heat.
- To add tonality to Natural Series shades, replace Pure Tones with Pure Pigments up to double the recommended amount for the level.
- To intensify a tonal family shade, customize with Pure Tone at the recommended amount for the level, and add up to an equal amount of Pure Pigment.

## Notes

## Swatching Activity



### Blonde Result

- 10 g 12N
- 10 g 10N
- 2 g Light B/B
- 2 g Light B/Gr
- 48 ml 30 Volume Color Catalyst™



### Customized Result

- 10 g Universal ØN Creme
- 10 g Dark R/V
- 20 ml 10 Volume Color Catalyst™

# Bond-Building and Strengthening Color Treatment Guidelines

Aveda recommends performing a professional **bond-building and strengthening color treatment** with every hair color service (except **full spectrum vibrants™**).

1	Spray the hair with up to 5 ml (30 sprays) of <b>botanical repair™ professional equalizing primer</b> , and comb through to distribute.
2	Mix <b>botanical repair™ professional hair strengthening additive</b> into the hair color formula. Use 8 g for every 40 g of hair color or 30 g (1 scoop) of <b>enlightener™ powder lightener</b> .
3	Perform the scheduled hair color service.
4	Process, rinse and shampoo with <b>botanical repair™ strengthening shampoo</b> .
5	Apply 20 g <b>botanical repair™ professional bond activator</b> to the hair, process for 10 minutes and rinse.

PRIMER		HAIR COLOR/ ENLIGHTENER™		ACTIVATOR: LIGHT OR RICH
up to 5 ml (30 sprays)	+	8 g	+	40 g/30 g (1 scoop)
			+	20 g

## Notes

# Taking it Home

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## My Action Items

Record two actions you will implement back at your salon.

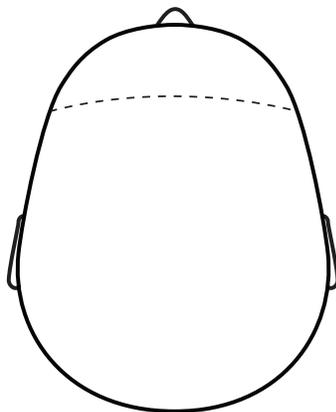
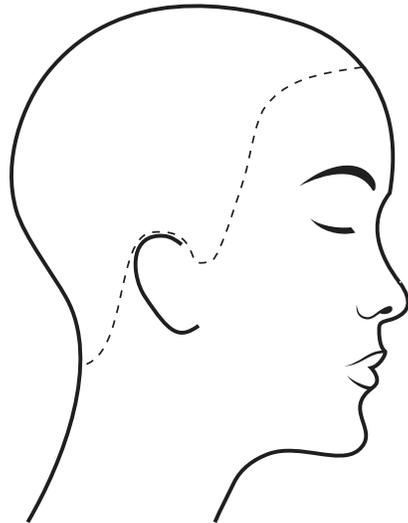
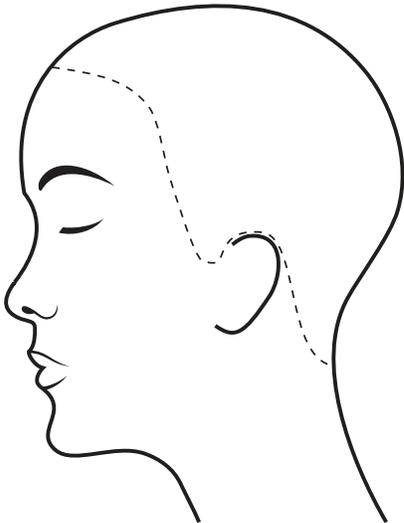
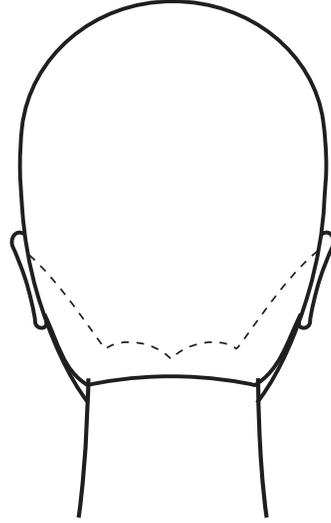
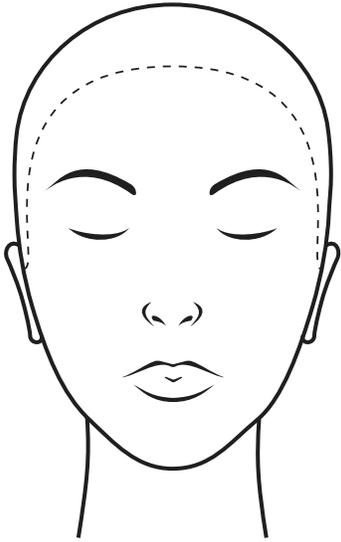
**1** I will...

**2** I will....

Notes

# Resources

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# Congratulations on completing Full Spectrum Deep™ Systems!

Print your name on the certificate below, and have the educator sign and date it.  
Then cut it out for your records or display it with pride.



## Certificate of Completion

**This certifies that**

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**has successfully completed**

**Full Spectrum Deep™ Systems**

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EDUCATOR SIGNATURE

DATE



Our mission at Aveda is to care for the world we live in, from the products we make to the ways in which we give back to society. At Aveda, we strive to set an example for environmental leadership and responsibility, not just in the world of beauty, but around the world.

