

## For Further Reading

*Gems & Gemology (G&G)*, GIA's professional journal, provides in-depth feature articles on the latest gemological research, from gem treatments, synthetics, and the evaluation of gem quality to developments in gem production, market sources, and more.

To give you the opportunity to learn more about the subjects you are studying and enrich your gemological knowledge, a list of *G&G* articles relevant to each *Diamonds & Diamond Grading* assignment is provided below. It is important to note that this reading is optional. You will not be tested on the content of these articles.

All *G&G* articles are available for download free of charge on GIA's website, [www.gia.edu](http://www.gia.edu). Copies of these articles are also available at your GIA campus location. Check with your instructor for access to them.



Scan the QR code above or go to <https://www.gia.edu/library> to access articles for further reading.

### Assignment 1: Beyond the Essentials

Gilbertson A. (2016) Diamond Quality: A Short History of the 4Cs. *GIA Research & News*  
<https://www.gia.edu/gia-news-research/diamond-quality-short-history-4Cs>

### Assignment 2: Birth of the Modern Diamond Industry

Bedini A. et al. (2012) The Vallerano Diamond from Ancient Rome: A Scientific Study. *Gems & Gemology*, Vol. 48, No. 1

<https://www.gia.edu/gems-gemology/spring-2012-vallerano-diamond-bedino>

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[https://www.gia.edu/doc/fall\\_1949.pdf](https://www.gia.edu/doc/fall_1949.pdf)

Shigley J.E. Bibliography, Historical Reading: The Diamond Fields of South Africa: Part 1 (1868-1893)

<https://www.gia.edu/gia-news-research/historical-reading-diamond-fields-south-africa-1868-1893>

Shigley J.E. Bibliography, Historical Reading: The Diamond Fields of South Africa: Part 2 (1893-2014)

<https://www.gia.edu/gia-news-research/historical-reading-diamond-fields-south-africa-1893-2014>

### Assignment 3: The Modern Diamond Market

Shor R. (2017) De Beers Optimistic as Sales Revive; Luxury Houses Remain Cautious. Industry Analysis  
<https://www.gia.edu/gia-news-research/debeers-optimistic-sales-revive-luxury-houses-remain-cautious>

Shor R. (2015) Major Diamond Find Brightens Market. Industry Analysis  
<https://www.gia.edu/gia-news-research/major-diamond-find-brightens-market>

Shor R. (2014) Gem News International: Online Diamond Sales 17% of U.S. Market. *Gems & Gemology*, Vol. 50, No. 4  
<https://www.gia.edu/gems-gemology/winter-2014-gemnews-online-diamond-sales>

Shor R. (2014) Rough Diamond Auctions: Sweeping Changes in Pricing and Distribution. *Gems & Gemology*, Vol. 50, No. 4  
<https://www.gia.edu/gems-gemology/winter-2014-rough-diamond-auctions-changes-pricing-distribution>

Weldon R., Shor R. (2014) Botswana's Scintillating Moment. *Gems & Gemology*, Vol. 50, No. 2  
<https://www.gia.edu/gems-gemology/summer-2014-weldon-botswana-scintillating-moment>

Shor R. (2014) Retailers, Diamond Trade Still Vying Over Prices. Industry Analysis  
<https://www.gia.edu/gia-news-research-may-2014-industry-analysis-retailers-diamond>

Shor R. (2014) Recycled Diamonds: 'Mining' the World's Largest Diamond Resource. GIA Research & News  
<https://www.gia.edu/gia-news-research/recycled-diamonds-mining-worlds-largest-diamond-resource>

Lucas A., Hsu T. (2014) Visit to the China Diamond Exchange Center. GIA Research & News  
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Hsu T., Lucas A. (2014) Visit to Zbird in Shanghai: Unlocking the Chinese Retail Diamond Industry Secrets. Field Report  
<https://www.gia.edu/gia-news-research-zbird-industry-hsu>

Shor R. (2014) Taming Zimbabwe's Diamond Production. GIA Research & News  
<https://www.gia.edu/gia-news-research-zimbabwe-diamonds-shor>

Shor R. (2013) Botswana: Making Beneficiation Work. GIA Research & News  
<https://www.gia.edu/research-news-botswana-making-beneficiation-work>

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<https://www.gia.edu/gia-news-research-sothebys-diamond-auction-2013-shor>

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Shor R., Weldon R. (2010) An Era of Sweeping Change in Diamond and Colored Stone Production Markets. *Gems & Gemology*, Vol. 46, No. 3  
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<https://www.gia.edu/gems-gemology/winter-2002-gem-news-international>

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<https://www.gia.edu/gems-gemology/spring-1998-diamond-cutting-india-sevdermish>

## Assignment 4: How Diamonds Form

Smith E.M. et al. (2017) The Very Deep Origin of the World's Biggest Diamonds. *Gems & Gemology*, Vol. 53, No. 4  
<https://www.gia.edu/gems-gemology/winter-2017-worlds-biggest-diamonds>

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<https://www.gia.edu/gems-gemology/winter-2016-microworld-ferropericase-inclusion-diamond>

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<https://www.gia.edu/diamonds-reveal-inner-workings-of-earths-mantle>

Breeding C.M. (2015) Diamond-Bearing Eclogite Xenoliths from the Ardo So Ver Dykes. *Gems & Gemology*, Vol. 51, No. 2  
<https://www.gia.edu/gems-gemology/summer-2015-gemnews-diamond-bearing-eclogite-xenoliths-ardo-so-ver-dykes>

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<https://www.gia.edu/gems-gemology/spring-2015-labnotes-diamond-in-diamond>

Pay D. et al. (2014) Tiny Inclusions Reveal Diamond Age and Earth's History: Research at the Carnegie Institution. GIA Research & News  
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Pay D. et al. (2014) Carbon Isotope Studies Reveal Diamond Growth History. GIA Research & News  
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<https://www.gia.edu/gems-gemology/WN13-advances-diamond-geology-shirey>

Lu R. (2009) Coesite Inclusions: Microbarometers in Diamond. Research News  
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<https://www.gia.edu/gems-gemology/spring-2004-x-ray-fingerprinting-cut-diamonds-diehl>

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## Assignment 5: Exploring for Diamonds

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<https://www.gia.edu/gems-gemology/summer-1998-gem-news-international>

Gem News International: Anticipated Production in the Northwest Territories (1998) *Gems & Gemology*, Vol. 34, No. 2

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Kopf R.W. et al. (1990) Recent Discoveries of Large Diamonds in Trinity County, California. *Gems & Gemology*, Vol. 26, No. 3

<https://www.gia.edu/gems-gemology/fall-1990-diamonds-california-kopf>

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Shor R., Smit K. (2016) Russia's Lomonosov Diamond Project Shows its Fancy Colors. GIA Research & News

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<https://www.gia.edu/gems-gemology/fall-2015-letseng-unique-diamond-proposition>

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<https://www.gia.edu/gems-gemology/winter-2007-gem-news-international>
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<https://www.gia.edu/gems-gemology/spring-1986-china-diamond-keller>
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## For Further Reading

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Scan the QR code above or go to <https://www.gia.edu/library> to access articles for further reading.

### Assignment 7: The Diamond Crystal

Kautsky J. (2016) Begin with the End in Mind: Tips, Tools to Evaluate Diamond Rough. *GIA Research & News* <https://www.gia.edu/gia-news-research/begin-end-mind-tips-tools-evaluate-diamond-rough>

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### Assignment 8: Diamonds and Light

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Gilbertson A. et al. (2009) Cutting Diffraction Gratings to Improve Dispersion ("Fire") in Diamonds. *Gems & Gemology*, Vol. 45, No. 4 <https://www.gia.edu/gems-gemology/winter-2009-fiery-diamonds-gilbertson>

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## Assignment 9: The Evolution of Diamond Cutting

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## For Further Reading

*Gems & Gemology (G&G)*, GIA's professional journal, provides in-depth feature articles on the latest gemological research, from gem treatments, synthetics, and the evaluation of gem quality to developments in gem production, market sources, and more.

To give you the opportunity to learn more about the subjects you are studying and enrich your gemological knowledge, a list of *G&G* articles relevant to each *Diamonds & Diamond Grading* assignment is provided below. It is important to note that this reading is optional. You will not be tested on the content of these articles.

All *G&G* articles are available for download free of charge on GIA's website, [www.gia.edu](http://www.gia.edu). Copies of these articles are also available at your GIA campus location. Check with your instructor for access to them.



Scan the QR code above or go to <https://www.gia.edu/library> to access articles for further reading.

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### Assignment 15: Grading Proportions—Pavilion and Culet—and Evaluating Finish

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## For Further Reading

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Scan the QR code above or go to <https://www.gia.edu/library> to access articles for further reading.

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## Assignment 19: Synthetics and Treatments

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