

What is AR²?

Adults Reaching Algebra Readiness (AR²) is designed as the sequel training to the ANI (Adult Numeracy Instruction) PD. Like ANI, AR² is an extended, cohort-style, hybrid (online and face-to-face) training which will take place over the course of the 2014-2015 academic year. AR² features three, 2-day in-person institutes and a variety of support activities in between these sessions

AR² picks up where ANI Institute #3 concludes, extending ANI principles and techniques to higher levels of mathematics learning. Participants will begin with a review of linear functions, progressing to systems of equations, and then move to nonlinear functions and exponents. Throughout the sessions, participants will continue to connect back to basic number properties and other core ideas introduced in ANI.

This brand new professional development initiative is both research-based and directly connected to the College and Career Readiness (CCR) Standards, and as such, it continues to promote the ANI focus on building instructor capacity to deliver effective numeracy instruction for adult learners.

What are the program objectives?

- Strengthen participants' math content knowledge through training and peer interaction.
- Implement new, effective adult numeracy instructional strategies in participants' classrooms.
- Increase participants' confidence in teaching numeracy and higher level math.
- Relate participants' math content to the various contexts in which adults play a role or aspire to (e.g., further education, workplace, community or family.)
- Expand networking and collaborative opportunities with participants' peers.
- Contribute to an ongoing, statewide virtual community for professional networking, general communication, and sharing resources related to numeracy.
- AR² uses a curriculum that focuses on four strategic instructional practices:
 - **Connections** among mathematical ideas and recognizing and applying mathematics in contexts outside of mathematics.
 - **Communication** of mathematical thinking, analyzing and evaluating the thinking and strategies of others, and attending to precision.
 - **Mathematical proficiency** that includes conceptual understanding, procedural fluency, strategic competence, adaptive reasoning, and a productive disposition.
 - **All content strands at all levels**, which involves incorporating increasingly sophisticated concepts of number sense; geometry; data, statistics, and graphs; and algebra at each level of math instruction.

How will I benefit?

- Increase your math content knowledge, improve the quality and effectiveness of your instructional strategies, and improve your confidence and comfort in teaching numeracy to adult learners.
- Improve outcomes for your learners through more effective instruction.
- Expand your networking, resource sharing, and collaboration in an ongoing online community of peers.
- Earn a certificate of completion which can be used for approximately 60 Professional Growth Points. (Please note that one classroom hour is worth one Professional Growth Point).
- Breakfast and Lunch will be provided at each in-person meeting. Programs are responsible for all other costs.

Who can participate?

This PD is open **only** to those teachers who have completed the ANI (Adult Numeracy Instruction) PD. Others will not be considered. Like ANI, the curriculum is intended to be implemented immediately, so only those who currently teach will be considered. Teachers are encouraged to apply with a partner teacher from the same or a nearby program. If a teacher does not apply with one, a partner will be assigned at the first in-person training.

What is required of teachers involved?

- Participants should be prepared to make a commitment for the entire program (dates listed in the calendar below):
 - Approximately 75 hours of work spread out over the academic year, including travel to Indianapolis for full-day events, online webinars, surveys, readings, self-assessments and reflections via an online virtual community, travel and time for peer observations, and culminating partner presentations.
- Participants must complete an online application (https://www.surveymonkey.com/s/AR2_2014-2015_Application) and obtain approval and support from their program administrator.

What is required of administrators?

- Administrators should anticipate approximately 6 hours of time participating in activities, including a teacher observation and reflection, webinars and surveys.
 - Attend the introductory webinar
 - Complete the pre- and post-training surveys
 - Observe participating teacher at least once throughout the year

**Administrators may allow a proxy to complete the requirements listed above.*

- Administrators should also provide support for participants throughout the year, including providing participants with time for completing AR² work and peer observation requirements.

AR ² Calendar of Events		
Date	Time/Location	Description
August 20 th , 2014	N/A	Application deadline
August 22 nd , 2014	N/A	All applicants will be notified of final decisions.
August 29 th , 2014	2:00 pm to 3:00 pm	Introductory Webinar
September 18 th – 19 th , 2014	9:00 am to 4:00 pm Government Center - Indianapolis, IN	AR ² Institute #1
November 14 th , 2014	3:00 pm to 4:00 pm	1-hour Webinar
November - March	N/A	Peer Observations
February 13 th , 2015	3:00 pm to 4:00 pm	1-hour Webinar
March 19 th - 20 th , 2015	9:00 am to 4:00 pm Government Center - Indianapolis, IN	AR ² Institute #2
May 29 th , 2015	3:00 pm to 4:00 pm	1-hour Webinar
March - June	N/A	Peer Observations
June 11 th – 12 th , 2015	9:00 am to 4:00 pm Government Center - Indianapolis, IN	AR ² Institute #3
June 19 th , 2015	3:00 pm to 4:00 pm	Final Webinar

Application Process:

- Interested teachers should first review the participation requirements with their program administrators. Individuals should allow themselves approximately 20 minutes to complete the application.
- The application must be completed in its entirety. All applications must be submitted online and can be accessed here: https://www.surveymonkey.com/s/AR2_2014-2015_Application.
- **Applications will be accepted until 5:00 pm on Wednesday August 20th, 2014.**
- Questions about this professional development can be sent to: DWDAdultEdPD@dwd.in.gov.