



Navigating and Selecting Tools for Distance Education

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#RUCSReady
@RutgersCESP

How can teachers **find, adapt, and use** resources in computer science instruction to best promote **learning, justice, and engagement?**

Finding Resources



...from Online Sources

- master the Google search using boolean operators and appropriate filters
- consider industry-specific search engines like Quora or StackOverflow



...through Peer Collaboration

- connect with educators through professional learning communities or communities of practice
- expand your network geographically and temporally through online forums, Meetups, or Teachers Pay Teachers
- universities might have initiatives to connect teachers from across districts (like CSforAll RPPs)



...from Asking Students

- create spaces for students to offer input on what contexts will be most interesting to present material
- assign projects that allow students to find resources on their own and test them in a risk-free setting
- when possible, have informal conversations with students during lunch, after school to get an honest opinion



...from your School or District

- know how to effectively advocate for the resources you need from leaders in your district
- if resources are provided to you, create opportunities to assess those resources and provide feedback

Effective Google Searches

Use quotation marks to create search strings



"computer science"



"AP CS Principles" review



Search for specific filetypes



java reference sheet filetype:pdf



password tester filetype:java



Utilize Boolean operators



loops activity AND real data



digital divide activity OR project



Iteratively refine your search



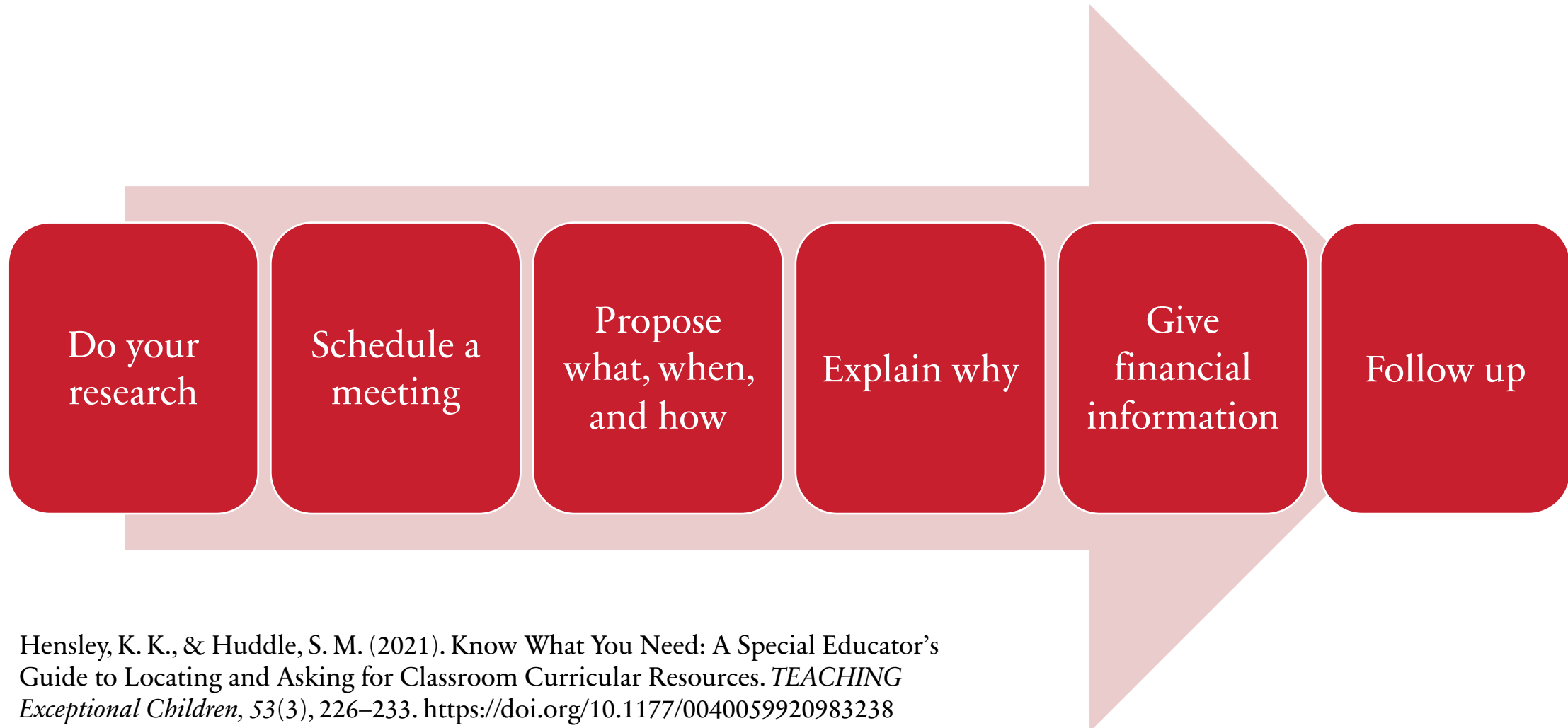
binary number practice



binary number practice examples



Advocating for Resources



Hensley, K. K., & Huddle, S. M. (2021). Know What You Need: A Special Educator's Guide to Locating and Asking for Classroom Curricular Resources. *TEACHING Exceptional Children*, 53(3), 226–233. <https://doi.org/10.1177/0040059920983238>

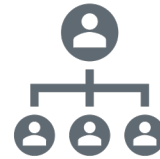
Adapting Resources



Gauge student understanding



Consider curriculum or standards alignment



Combine multiple resources if needed

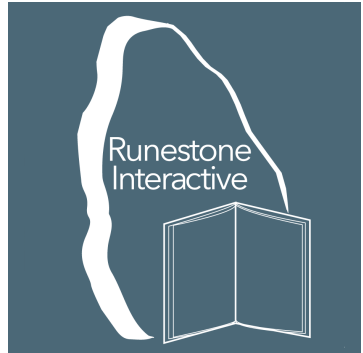


Add opportunities for collaboration and reflection

Using Resources

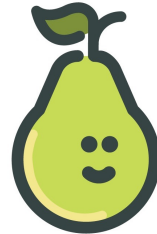


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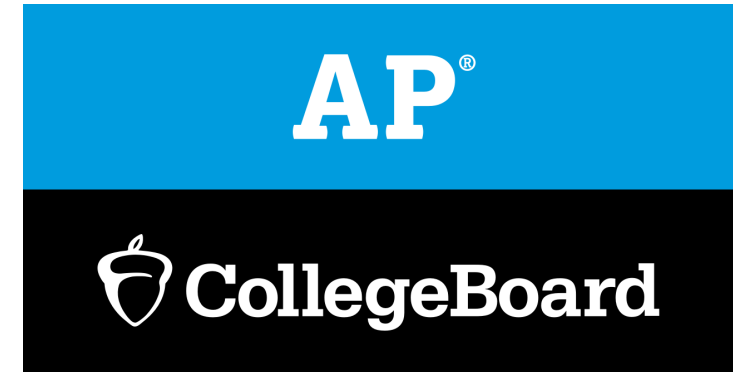


CS^Aawesome

lightbot™



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Professional Development™



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DO YOU

How can ~~teachers~~ **find, adapt**, and **use** resources in computer science instruction to best promote **learning, justice, and engagement?**



Share with us
on Padlet!

padlet.com/rucespdavid/csta2021

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Thank You!

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CSTA '21 – “Poster” Session

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