

**GRADES 3-4**

**TALL TALES STEM CHALLENGES**

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| **Time/Period**  | **Monday** | **Tuesday** | **Wednesday** | **Thursday**  |
| **8:30-9:00** Introduction/Warm Up  | - Name Continuum - Fun facts- [Musical Straws](http://www.girlstart.org/item/hands-on-wednesday-70)* Scissors
* Straws

- [Balloon Speakers](http://www.girlstart.org/item/hands-on-wednesday-82)* Balloon
 | - Two Truths & a Dream- [Sandwich Bag Dart Board](http://scienceofeverydaylife.com/students/pdfs/sandwich_bag.pdf)* Sandwich Bags (pint/quart-sized)
* Sharpened pencils
* Water
 | - Connect the Story- [Pop Rocks Expander](http://www.stevespanglerscience.com/lab/experiments/poprocks)* Pop Rocks
* Balloons
* Funnel
* Soda Bottles (12-16 oz)
 | - Shoe Pile Mingle- [Soda Can Jump](http://www.girlstart.org/item/hands-on-wednesday-73)* Soda Can
* Mug
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| **9:00-9:15**Watch Story  | Johnny Appleseed [YouTube Video](https://www.youtube.com/watch?v=484AJlOnOnc&list=PLtlah04yok_vFOAY6gy46gneslyJyBrNL&index=1) | Pecos Bill [YouTube Video](https://www.youtube.com/watch?v=9QIOZAsCxZ8) | John Henry [YouTube Video](https://vimeo.com/59767453) | Sluefoot Sue [YouTube Video](https://www.youtube.com/watch?v=NkQW-zF7A-g&list=PLaIX_leurmKr_bbSaVFs4kQTHi_etxM6b) |
| **9:15-9:20**Set up activities/Hand out Materials/Brainstorm ideas on paper | - Sticks from outside- Yarn- Scissors- Large Tub of water- Apples | - Plastic grocery bags (4 per person/pair)- Plastic chair  | - Empty cardboard rolls- Tape, scissors, glue- Tape measure | - Brown construction paper sheets- Glue and scissors- Cardboard pieces- Weights (pennies & books) |
| **9:20-10:25**Build STEM Challenge  | John Chapman Apple Raft Challenge  | Pecos Bill Plastic Bag Lasso Challenge | John Henry’s Tube Train Challenge  | Sluefoot Sue Log Cabin Challenge **(9:20-10:00)**Guest Speaker - **ROBOTICS TEAM PRESENTATION (10:00-10:30)**Finish up Sue Log Cabin Challenge **(10:30-11:15)** |
| **10:25-10:45**Wrap up Challenge  | Testing & Challenge Discussion (Lab Sheets)  | Testing & Challenge Discussion (Lab Sheets) | Testing & Challenge Discussion (Lab Sheets)  |  |
| **10:45-11:15**Additional STEM Challenge/Programming/Coding  | [www.code.org](http://www.code.org)  | [Building Pool Noodle Structures With Toothpicks](http://littlebinsforlittlehands.com/building-pool-noodle-structures-with-toothpicks/) (create a city)[www.code.org](http://www.code.org)  | [www.tynker.org](http://www.tynker.org) - Made student usernames and passwords  |  |
| **11:15-11:30** (Clean up)  | [Discovery Education Video](https://app.discoveryeducation.com/search?N=18342+4294867563&browseFilter=d_Service:DE%20Streaming,) | [Time Warp Trio: 2105](https://app.discoveryeducation.com/player/view/assetGuid/9C848169-CE9D-4019-BBC5-3B8C41329976) | [Magic School Bus: Under Construction](https://app.discoveryeducation.com/search?N=18342+4294867563&browseFilter=d_Service:DE%20Streaming,#N=4294867563&No=0&Ntk=All&Ntx=mode+matchallpartial&Ns=p_wtd%7C1) | [Mesopotamia: Nomads to Farmers](https://app.discoveryeducation.com/player/view/assetGuid/3029357E-9BB7-40D5-93E2-EFFBDCA2AFFE)[Alexander Graham Bell](https://app.discoveryeducation.com/player/view/assetGuid/EBDA5D42-F75E-4F53-9E02-F87289EB7625) |