WELCOME
Introductions

- Karl Griffor
  - Consultant
- Sarah Sleasman
  - Director of Science and STEM
- Jonathan Moore, Ed. D.
  - Deputy Associate Superintendent
Arizona Science Standards Revision Working Group

Today we will...

- Begin / finish both public and 60% of technical comments
- Ensure that all our work is captured properly

TO DO LIST
1. SO
2. MANY
3. THINGS
Housekeeping

1. Sign in
2. Parking validation
3. Restrooms
4. Breaks/Lunch
5. Sign forms - All members

Cell phones should only be used during breaks and lunch. If you need to take a call, please go to the break room. Please check text and email only during break due to non-disclosure.
**Introductions**

Introduce yourself by telling everyone in the group:

1. Your name
2. Your school/district
3. Your current position
4. Something exciting about this summer
Biggest Thank You!
Science Standard Revision and Implementation Timeline

- **October 2017**: Development process opened with the State Board of Education
- **October 2017 – December 2017**: ADE collects public feedback to inform new standards
- **January – June 2018**: ADE convenes working groups of educators, content experts, community members, and parents; ongoing Internal Review
- **June 2018 – August 2018**: Public comment
- **Fall 2018**: ADE reconvenes working groups and ongoing internal review
- **Anticipated October 2018**: ADE presents CS Standard to State Board of Education for adoption
- **Transition and Implementation**
  - **Winter 2018-19**: ADE develops support documents
  - **2019-2020**: Transition Year
  - **2020-2021**: Implementation Year
Working Group Norms

• Actively engage in all discussions
• Be open-minded
• Have an attitude that fosters collaboration, agreement, and consensus
• Be mindful of timelines and scope of work
• **Cell phone/email checks are limited to breaks**
Standards - What a student needs to know, understand, and be able to do by the end of each grade. Standards build across grade levels in a progression of increasing understanding through a range of cognitive demand levels. Standards are adopted at the state level by the State Board of Education.
Standards, Curriculum, & Instruction

**Curriculum** - The resources used for teaching and learning the standards. Curricula are adopted at a local level by districts and schools.

**Instruction** - The methods used by teachers to teach their students. Instructional techniques are employed by individual teachers in response to the needs of the students in their classes to help them progress through the curriculum in order to master the standards.
Reminder:
Keep in mind our work product is public record.
Today’s Tasks-Tech Review

Technical reviewer comment-Lindsey

• K.NI.C.1: “ Appropriately use and protect” could be explained a bit more, in terms of what it would look like. For example, “Students should enter a password independently and commit to keeping their password private.”
Today’s Tasks - Tech Review

**Subconcept: Troubleshooting (T)**

K.CS.T.1  
Discuss basic hardware and software problems. Problems with computing systems have different causes. Students at this level do not need to understand those causes, but they should be able to communicate a problem (e.g., when an app or program is not working as expected, a device will not turn on, the sound does not work, etc.).


**Concept: Networks and the Internet (NI)**

**Subconcept: Cybersecurity (C)**

K.NI.C.1  
Explain that a password helps protect the privacy of information. Connecting devices to a network or the Internet provides great benefit, but care must be taken to use authentication measures, such as strong passwords, to protect devices and information from unauthorized access. This is an essential first step in learning about cybersecurity. They should appropriately use and protect the passwords they are required to use. Usernames and passwords, such as those on computing devices or Wi-Fi networks, provide a way of authenticating a user’s identity.

Practice(s): Communicating About Computing: 7.2

**Subconcept: Network, Communication, and Organization (NCO)**

K.NI.NCO.1  
With teacher guidance, students discuss how computer networks can be used to connect people to other people, places, information, and ideas. Small, wireless devices, such as cell phones, communicate with one another through a series of intermediary connection points, such as cellular towers. This coordination among many computing devices allows a person to voice call a friend or video chat with a family member. Details about the connection points are not expected at this level.

Practice(s): Communicating About Computing: 7.3

**Concept: Data and Analysis (DA)**

**Subconcept: Collection, Visualization and Transformation (CVT)**

Draft Arizona Computer Science Standards
Today’s Tasks-Public Review

Public comment

<table>
<thead>
<tr>
<th>Comment #</th>
<th>Actionable?</th>
<th>Suggest Changes</th>
<th>Committee Rationale/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.J</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.J</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.J</td>
<td>Y</td>
<td>Consider creating a table that lists standards content broken down by grade band, or lists all by single grade from K-12</td>
<td></td>
</tr>
</tbody>
</table>
Final Thoughts

Table Share Outs
1.) Finish sharing out themes or commonalities between comments and commenters. Capture via post-it’s on the posters on the wall
2.) Professional Development for teachers to implement CS, thoughts...