Early Signs & Differential Characteristics Sort

Objective

- Students will identify early developmental and behavioral characteristics of PWS and AS.
- Students will distinguish between syndrome-specific red flags and typical developmental variations.

Materials

- Set of symptom/feature cards (printed or digital)
- Three sorting mats: PWS, AS, and Typical Development
- Optional: Case study excerpts from syllabus resources

Instructions

- 1. Provide each group with 20–30 cards showing signs such as:
 - hypotonia
 - feeding challenges
 - o hyperphagia
 - ataxic gait
 - o minimal speech
 - o sleep disturbance
 - happy demeanor
 - developmental plateau
 - o intellectual disability
- 2. Students sort cards into one of the three categories.
- 3. Groups justify 3–5 of their placements with evidence (e.g., "This is characteristic of AS because...").
- 4. Whole-class debrief compares similarities/differences between PWS and AS.

Assessment

Group justification during discussion

• Optional written reflection on 2–3 distinguishing features between PWS & AS

Learning Activity: Constructing a Family Support Map

Objective

- Students will describe the family impact of PWS/AS and identify supports needed across home, community, and clinical settings.
- Students will apply a family-centered lens to designing supports.

Materials

- Large paper or digital canvas (Jamboard, Canva, Miro)
- Colored markers or digital sticky notes
- Handout summarizing common family challenges (sleep, feeding, behavior, safety, medical care, transitions)

Instructions

- 1. Students work individually or in pairs.
- 2. They create a **Family Support Map** with four quadrants:
 - Medical & Behavioral Supports
 - Educational & Early Intervention Supports
 - Community & Social Supports
 - o Family Well-Being & Respite Supports
- 3. Students place concrete supports in each quadrant (e.g., "registered dietitian," "behavior analyst," "respite care," "parent support groups," "IEP team").
- 4. Optional add-on: Have students choose either PWS or AS and tailor supports to their syndrome's needs.

Assessment

- Completion of a support map with rationale
- Short written reflection on which supports are most essential and why

Learning Activity: Intervention Planning Mini-Case

Objective

- Students will design an intervention plan for a young child with PWS or AS based on strengths, needs, and family priorities.
- Students will apply interdisciplinary and collaborative planning strategies.

Materials

- One-page mini-case for PWS (e.g., low muscle tone, feeding history, emerging behavioral rigidity)
- One-page mini-case for AS (e.g., ataxic gait, minimal speech, high social interest)
- IFSP/IEP planning template
- Roles list (OT, PT, SLP, family, special educator, nutritionist)

Instructions

- 1. Assign each group either a PWS or AS case.
- 2. Groups fill out an **IFSP/IEP mini-plan** including:
 - Priority outcomes
 - o At least 3 discipline-specific strategies
 - One family-focused strategy
 - Environmental or safety considerations
 - Progress monitoring method
- 3. Groups present their plan to the class.
- 4. Instructor highlights syndrome-specific needs (e.g., food safety for PWS, AAC for AS).

Assessment

- Completed planning template
- Quality of syndrome-specific alignment in strategies

Learning Activity: Genetics Made Simple — Visual Explanation Project

Objective

- Students will explain the genetic mechanisms of PWS and AS in clear, accessible language suitable for families.
- Students will illustrate differences between maternal vs paternal deletions, UPD, and imprinting errors.

Materials

- Chart paper or digital illustration tools
- Markers
- Simple genetics handout (e.g., chromosome 15 diagram)

Instructions

- 1. Students work in pairs to create a "Family-Friendly Genetic Explainer."
- 2. The visual must include:
 - o A simplified chromosome 15 diagram
 - How PWS occurs
 - o How AS occurs
 - o A visual of "imprinting"
- 3. Students practice explaining their diagram to a partner acting as a family member.
- 4. Optional: Students create digital infographics that could be used in EI/ECSE resource packets.

Assessment

- Accuracy and clarity of explanation
- Appropriateness of language for non-specialist audiences