



Patterns Workshop Summer
2013
July 1-2, 2013



July 1, 2013

8:30 – 8:55 Coffee, etc.

9:00 - 9:10 WELCOME! - Introductions

9:10 - 9:30: Introductory Presentation

9:30 - 9:45 Distribute handout packet & record dry weight of peas

9:45 - 10:45 Wrinkle Detectives Skin Inquiry Activity Using RAPT

10:45-11:00 short break

11:00 - 11:50 Benny's research

11:50 - 12:30 Part 1: Wrinkled Peas? Introduction to the Activities

- Human Saliva activity
- Osmosis and Dialysis Tubing Activity
- Analyzing Dry and Imbibed weights of wrinkled and smooth pea seeds
- Inquiry Lab—Putting it All Together, What makes wrinkled peas?

12:30 – 1:30 Lunch

1:30 – 3:00 Part 2: Wrinkled Peas?

3:00 – 3:30 Buckling Introduction

3:30 – 4:30 Buckling Activity

July 2, 2013

8:30 – 8:55 Coffee, etc.

9:00 – 9:30 Buckling Activity Continued

9:30 – 10:30 Wrinkling Activity

10:30 – 10:45 Short Break

10:45 – 11:00 Branching Presentation

11:00 – 11:45 Hands-On Branching Activities – Hele-Shaw Cell

11:45 – 12:15 Data Collapse Presentation - Benny

12:15 – 1:15 Lunch

1:15 – 1:45 Root Development - Demonstration

1:45 – 2:30 Leaf Venation Activity

2:30 – 2:45 Break

2:45 – 3:45 Brainstorm and Sharing Ideas - Review MA science frameworks and math common core standards and look for places where identifying patterns can help to explain concepts.

Ex. Digestive Tract: Alveoli and wrinkling