

IT IS AS EASY AS PI

GRADES 3-4



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Storyline and Problem

- We are all pirates who have found an ancient treasure worth millions of dollars! But, its locked!
- After many attempts, we haven't been able to open the treasure – we discovered it is protected by a passcode.
- We need to crack the code!



Lesson outline: Part 1 (55 min)

- **Activity 1: Circular Sensations**
 - ▣ Goal – students will kinesthetically explore ways to measure circles

- **Activity 2: Sphere dissection**
 - ▣ Goal – students will dissect a Styrofoam ball to reinforce new vocabulary

Lesson outline: Part 2 (55 min)

- **Activity 3: Stamping Circles**
 - Goal – students will explore the relationship of C/d

- **Activity 4: circular ciphers**
 - Goal – students will solve the passcode and make a cipher to represent it

Activity 1

- Circular sensations

Activity 2

- Sphere dissection

DEBRIEF TIME



- **Student Mode**

- ▣ What should the students have learned by this point?

- **Teacher Mode**

- ▣ Staying excited about and reinforcing the story – why?
- ▣ Emphasizing safety
- ▣ New vocabulary

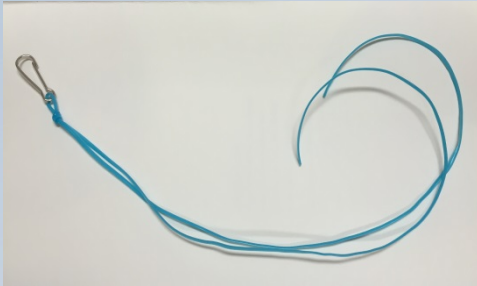
Activity 3

- Stamping circles

Activity 4

- Circular Ciphers

1. Start with your lanyard string and hook



2. Put BOTH lanyard string ends through each bead



3. Continue threading the beads on to the string

4. For the last bead, loop both lanyard string ends around the final bead



5. Pull it tight.



6. Tie a tight knot right at the end of the final/ wrapped bead.



DEBRIEF TIME

Student Mode

- What should the students have learned by the end of the lesson?

Teacher Mode

- Wrapping it all up
- Opportunities for differentiation
- Opportunities for extensions

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Thank you

Any questions?