Snappy Rings

Shared by: Jonathan Tagoe, MIT Class of 2021

<table>
<thead>
<tr>
<th>Specialized tools/technology used</th>
<th>Experience level required</th>
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</thead>
<tbody>
<tr>
<td>3D printer</td>
<td>beginner</td>
</tr>
<tr>
<td>Tinkercad or other 3D modeling software</td>
<td>beginner/intermediate</td>
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<tr>
<td>Calipers</td>
<td>beginner</td>
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</tbody>
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**Grade Level** (of this example): Middle School and up

**Estimated time:** 90 - 120 minutes

**Topic/Content Standards** (for this example): Engineering/Math - measurement, tolerance
Social Studies/Language Arts/World Language - meaningful artifacts and characters

**Summary of Project:**
In this project, students will create 3D printed rings with interchangeable toppers.

Students work individually within these constraints:
- rings are able to fit their fingers snugly, without being too loose or hard to take off
- ring inserts fit into rings without getting stuck or falling out

**Images of finished student work**
Check out the Snappy Rings Instructable at https://www.instructables.com/id/Snappy-Rings/

Students design and create customized rings with snap-on tops to represent significant traits, powers, or attributes of a specific character. The rings can be worn as props or identifiers in classroom conversations about characters in history and literature. An alternative use is to make a personal signet ring as used on old-fashioned wax seals. The “snap” features between the ring and the topper are provided in the Tinkercad Gallery and are linked in the Instructables lesson.