Title of Study: Institute for Creativity, Arts, and Technology longitudinal study

Principal Investigator(s):
Phyllis Newbill  pnewbill@vt.edu

Purpose of this Research/Project
The purpose of the research is to learn more about how you and your child(ren) experience the programs provided by the Institute for Creativity, Arts, and Technology (ICAT) at Virginia Tech. We hope to learn how you and your child(ren) develop critical and creative thinking skills over time.

Procedures
ICAT programs are designed to build critical and creative thinking skills. In order to participate in these programs, you must consent to participating in our research. Some programs are designed for parents and children to work together. Others are only for older children. We will collect basic demographic data from you at registration for each program. During the programs you and/or your child(ren) may be photographed and videotaped. Researchers may ask you and/or your child(ren) about the experience and take notes or record the response. Researchers may also observe interactions, including interactions between you and your child(ren). You and/or your children may produce artifacts such as journals, films, photographs, objects, computer programs and files, sculptures, drawings, blogs, and presentations. Any of these artifacts produced during or for ICAT programs may be analyzed for ICAT research. Following most ICAT programs, you and/or your child(ren) will be asked to evaluate the experience using a paper or online questionnaire. Responses to these questionnaires may be analyzed for ICAT research.

Because we are interested in how critical and creative thinking changes over time, we may want to contact you and/or your child(ren) in the years following your participation in ICAT programs. Each time we contact you and/or your child(ren), we will ask whether you would like to continue in the study.

We ask for your consent to participate in our research as part of the registration process for your first program or your first program after we implement this consent process. Your consent allows us to collect data from you at all future programs. If you and your child(ren) have attended previous programs, we request your permission to use photographs, observations, and artifacts from those programs for our analysis.
Risks
There are minimal risks to participation in this study. Risks to participants are no greater than the risks associated with attending a public program. In addition, you and/or your child(ren) have the right to withdraw from participation at any time by notifying the researcher in writing or in person of the desire to withdraw.

Benefits
ICAT programs are designed to build critical and creative thinking skills. Your and/or your child(ren)’s critical and creative thinking skills may improve. The results of this research will inform future programs and educational offerings, as well as contribute to our understanding of how critical and creative thinking skills develop. No promise or guarantee of benefits has been made to encourage you to participate.

Extent of Anonymity and Confidentiality
Information gathered from the study may be used in research reports, presentations, and articles in professional journals. Real names will not be used in research publications. Rather, pseudonyms will be used. With your permission, photographs and video documentation of participants may be used in reports, presentations, and articles of professional journals. Researchers will analyze the images and video recordings to answer research questions. All study materials will be retained for an indefinite period in secure locations. When all project research is complete, the data will be destroyed. The Institutional Review Board (IRB) may view this study’s collected data for auditing purposes.

With your permission, your and/or your child(ren)’s photos and real names may be published in newspapers and online news sources for public relations purposes.

Compensation
Taking part in this study is voluntary; you will not be compensated for participating in this study.

Freedom to Withdraw
You and your child(ren) are free to withdraw from this study at any time without penalty. You and your child(ren) may choose to not respond to any research questions that you choose. There may be circumstances under which the investigators may determine that you should not continue to be involved in the study.

Questions about the Research
Should you have any pertinent questions about this research or its conduct, contact: Phyllis Newbill pnewbill@vt.edu

Should you have any questions or concerns about the study’s conduct or your rights as a research participant, or need to report a research-related injury or event, you may contact the Virginia Tech Institutional Review Board at irb@vt.edu or (540) 231-3732.
ICAT Parent Consent Form
(Use additional copies of this page if more than one parent/guardian will participate.)

Subject’s Responsibilities
I voluntarily agree to participate in this study. I have the following responsibilities:
• Attend and participate in ICAT programs as desired,
• Complete after-program questionnaires,
• Participate in future interviews about your experiences since participating in ICAT programs.

Subject’s Permission
I have read the Consent and Permission Form and conditions of this project. I have had all my questions answered. I hereby acknowledge the above and give my voluntary consent to participate in the study:

_____________________________________________  __________
Signature of adult research participant (parent/guardian)  Date

Printed Name of adult research participant (parent/guardian)

Please initial your permissions.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>I may be photographed for this research.</td>
<td></td>
</tr>
<tr>
<td>I may be videotaped for this research.</td>
<td></td>
</tr>
<tr>
<td>I may be audiotaped for this research.</td>
<td></td>
</tr>
<tr>
<td>Data collected about me from ICAT programs prior to 2014 may be used for this research.</td>
<td></td>
</tr>
<tr>
<td>The researchers are welcome to contact me in the future to follow up about my experiences in ICAT programs. (I may still withdraw from the study at any time.)</td>
<td></td>
</tr>
<tr>
<td>My real name may be used for public relations (such as newspapers, online news sources).</td>
<td></td>
</tr>
<tr>
<td>My image may be used for public relations (such as newspapers, online news sources).</td>
<td></td>
</tr>
</tbody>
</table>

The Virginia Polytechnic Institute and State University/School of Education periodically uses electronic and traditional media (e.g., photographs, video, audio footage, testimonials) for publicity and educational purposes. By my initial on this form, I acknowledge receipt of this media release statement and give permission to the Institute for Creativity, Arts, and Technology and its designee to use such reproductions for educational and publicity purposes in perpetuity without further consideration from me. I understand that I will need to notify Virginia Tech/Institute for Creativity, Arts, and Technology if any changes to my situation occur that will impact this media release permission.
ICAT Parent Permission Form  
(Use additional copies of this page if more than one child will participate.)

Name of child with permission to participate ____________________________ Date ____________

Please initial your permissions.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>My child may be photographed for this research.</td>
<td></td>
</tr>
<tr>
<td>My child may be videotaped for this research.</td>
<td></td>
</tr>
<tr>
<td>My child may be audiotaped for this research.</td>
<td></td>
</tr>
</tbody>
</table>

The researchers are welcome to contact my child in the future to follow up about my experiences in ICAT programs. (I may still withdraw my child from the study at any time.)

Data collected about my child from ICAT programs prior to 2014 may be used for this research.

My child’s real name may be used for public relations (such as newspapers, online news sources).

My child’s image may be used for public relations (such as newspapers, online news sources).

The Virginia Polytechnic Institute and State University/School of Education periodically uses electronic and traditional media (e.g., photographs, video, audio footage, testimonials) for publicity and educational purposes. By my initial on this form, I acknowledge receipt of this media release statement and give permission to the Institute for Creativity, Arts, and Technology and its designee to use such reproductions for educational and publicity purposes in perpetuity without further consideration from me. I understand that I will need to notify Virginia Tech/Institute for Creativity, Arts, and Technology if any changes to my situation occur that will impact this media release permission.

**Subject’s Responsibilities**

I voluntarily agree to my child’s participation in this study. My child and I have the following responsibilities:

- Attend and participate in ICAT programs as desired,
- Complete after-program questionnaires,
- Participate in future interviews about your experiences since participating in ICAT programs.

**Subject’s Permission**

I have read the Consent and Permission Form and conditions of this project. I have had all my questions answered. I hereby acknowledge the above and give my consent for my child to participate in the study:

Signature of parent/guardian ____________________________ Date ____________

Printed Name of parent/guardian ____________________________